

Wisconsin Pollutant Discharge Elimination System (WPDES) Permit Application Renewal

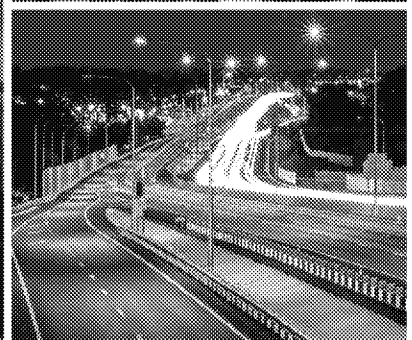
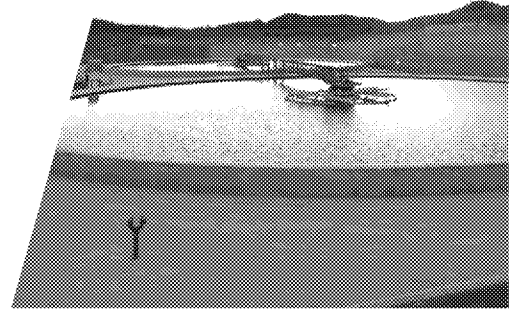
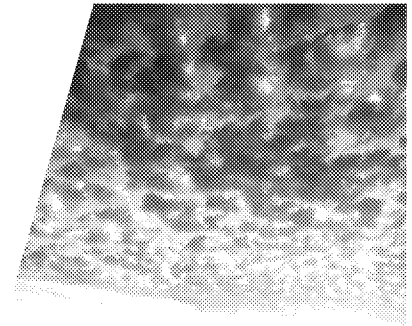
Ex. 6 Personal Privacy (PP)

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Ex. 6 Personal Privacy (PP)

Kewaunee County, Wisconsin





Disclaimer

GHD Services Inc. (GHD) has developed this Wisconsin Pollution Discharge Elimination System (WPDES) Permit Application (WPDES Permit Application) based on information that was disclosed to GHD to the best of the Farmer's knowledge pertaining to the livestock operation for each component of the WPDES Permit Application. GHD is not responsible for data/information that was not properly disclosed, knowingly denied or restricted, or that was otherwise incorrect, or for any resource problem(s) that was not disclosed. It is the Farmer's responsibility to implement and manage the appropriate changes required in this WPDES Permit Application. If they do not follow the schedule of implementation listed in the WPDES Permit Application, GHD is not responsible for any damages, losses, or liability.

The Farmer understands that it is their responsibility to obtain any and all permits that may be required to implement modifications to farm structures or operations required in the WPDES Permit Application and to keep all of the necessary records associated with these modifications. They understand that the WPDES Permit Application was prepared in accordance with the requirements of the Wisconsin Department of Natural Resources (WDNR) and the United States Department of Agriculture Natural Resources Conservation Service (USDA-NRCS) Wisconsin State Office, which generally adopts the requirements of Chapter NR 243 "Animal Feeding Operations".



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1. General Operation Items

1.1 Introduction

This document presents the Wisconsin Pollution Discharge Elimination System (WPDES) Permit Renewal Application for **Ex. 6 Personal Privacy (PP)** LLC. (Farm or Site) **Ex. 6 Personal Privacy (PP)** LLC consists of multiple facilities including the Main Facility located at **Ex. 6 Personal Privacy (PP)** the K Farm located at **Ex. 6 Personal Privacy (PP)** and the **Ex. 6 Personal Privacy (PP)** Farm located at **Ex. 6 Personal Privacy (PP)** Road. In addition, the Farm maintains satellite waste storage facilities at the S Farm located at **Ex. 6 Personal Privacy (PP)** and on 54 Farm located at **Ex. 6 Personal Privacy (PP)** The completed permit application for each facility is provided in Appendix A on Form 3400-25 and the completed animal unit worksheets for each facility housing animals are provided in Appendix B on Forms 3400-25A. This permit application complies with WDNR Chapter NR 243, Animal Feeding Operations. **Ex. 6 Personal Privacy (PP)** LLC currently operates under WPDES Permit No. WI-0062235.

1.2 Background Information

Ex. 6 Personal Privacy (PP) LLC, owned and operated by **Ex. 6 Personal Privacy (PP)** is a dairy farm located in Kewaunee County, Wisconsin. The Main Facility, K Farm and **Ex. 6 Personal Privacy (PP)** Farm are located in the **Ex. 6 Personal Privacy (PP)** the legal description for each facility is below:

- Main Facility is the **Ex. 6 Personal Privacy (PP)**
- K Farm is the **Ex. 6 Personal Privacy (PP)**
- **Ex. 6 Personal Privacy (PP)** Farm is the **Ex. 6 Personal Privacy (PP)**
- S Farm is the **Ex. 6 Personal Privacy (PP)**
- 54 Farm is the **Ex. 6 Personal Privacy (PP)**

References to the Farm throughout this WPDES Application are to the entire operation, including the dairy facility and all fields included in the Nutrient Management Plan (NMP).

A Plat Map showing the general location of each facility is included on Figure 1; a SSURGO soils map for each facility is included on Figures 2 through 6; Figures 7 through 11 present the wetlands and W soils in proximity to each facility; and Figure 12 presents a USGS topographic map of the area. The Farm generally consists of the farmsteads and the acres of land owned, rented or maintained in manure spreading agreements. The Farm parcels are zoned Exclusive agricultural by **Ex. 6 Personal Privacy (PP)** in the vicinity of the Farm is generally agricultural.

The Farm is located in the Ahnapee River and Stony Creek Watershed (HUC 0403010202) and Willow Creek Watershed (LW12), with tributaries to the Lake Michigan Basin.

The Main Facility consists of two (2) milking parlors and holding areas, five (5) freestall barns, a dry cow barn, a maternity barn, a fresh cow barn, two (2) heifer barns, six (6) calf barns, a bedding shed, a machine shed and maintenance shop, an equipment storage shed, three (3) waste storage ponds (WSPs), a manure processing facility, an agronomy office, two (2) commodity storage barns, two (2) feed storage areas with leachate collection systems and one (1) vegetated treatment area,



as shown on Figure 13. There are four (4) existing wells and one (1) well proposed for installation at Main Facility, as summarized in the table below and shown of Figure 13. Proposed changes at the Main Facility include construction of additional feed storage area, concrete collection channel, leachate management pond (LMP) and re-routing the utilities and manure transfer pipeline around the proposed construction.

The K Farm consists of a bedded pack barn and concrete barnyard along Highway K, Calf Barn #1 and #2, two (2) small transition barns, a remodeled dairy barn and concrete barnyard, and a concrete lined barnyard runoff collection pond. A site plan of the K Farm is included in Figure 14. There is one (1) existing well and one (1) well proposed for construction, as shown on the table below and on Figure 14. Additional bedded pack structures will be necessary at the K Farm to accommodate increased numbers of beef cattle. The bedded pack structures will not have waste transfer systems, therefore WDNR Plan and Specification approval is not required. The Farm has not determined a schedule for construction of the additional bedded pack structures at this time.

The [Ex. 6 Personal Privacy (PP)] Farm consists of two (2) four row freestall barns; one (1) three row freestall barn; one (1) heifer/dry cow barn; one (1) special needs barn; one (1) heifer barn; two (2) clay-lined waste storage ponds (WSPs); a concrete lined leachate basin; two (2) commodity sheds, one (1) Harvestore silo; two (2) grain bins and a series of concrete bunker silos, as shown on Figure 15. There are two (2) existing wells at the [Ex. 6 Personal Privacy (PP)] Farm, as shown in the table below and on Figure 15. Two (2) proposed changes at the [Ex. 6 Personal Privacy (PP)] Farm include abandonment of the West Concrete Barnyard (approximately 8,430 square feet) and installation of approximately 220 ft of roof gutter on the west and south sides of the existing freestall barn (216 ft x 103 ft) located west of the feed storage area in order to exclude roof water from the collection system.

Satellite waste storage facilities are maintained at the S Farm and 54 Farm, as shown on Figures 16 and 17. No other structures at these locations are used by [Ex. 6 Personal Privacy (PP)], LLC and no changes at these facilities are proposed during the next permit term. There are two (2) wells at each facility, as shown in the table below and on Figures 16 and 17, respectively. The Slurrystore Tank at 54 Farm is currently being evaluated by Foxland Harvestore, Inc. of Kaukauna Wisconsin, an authorized Slurrystore dealer and CST Industries of DeKalb, Illinois. The engineering evaluation will be provided to WDNR under separate cover.

**Table 1.3 Well Summary**

High Cap #	WI Unique Well No. (Farm ID)	Construction Date	Well Details
74528	XV207 - Main Facility	02/19/2016	186 ft deep with 182 ft of 6 inch casing
70893	WW798 - Main Facility	11/12/2012	662 ft deep with 250 ft of 8 inch casing
70892	SY505 - Main Facility	5/17/2005	200 ft deep with 166 ft of 6 inch casing
70891	MB097 - Main Facility	2/23/1998	200 ft deep with 184 ft of 6 inch casing
74527	Main Facility	Proposed	Well Approved by WDNR 11/13/2015
n/a	K Farm	08/28/1949	Construction Details Not Available
74547	K Farm	Proposed	Well Approved by WDNR 01/01/2015
	DM210 - Ex. 6 Personal Privacy (PP) Farm	02/03/2005	220 ft deep with 160 ft of 6 inch casing
74550	MB081 - Ex. 6 Personal Privacy (PP) Farm	12/02/1997	223 ft deep with 155 ft of 6 inch casing
n/a	S Farm - East Well	n/a	Construction Details Not Available
n/a	S Farm - West Well	n/a	Construction Details Not Available
n/a	54 Farm	n/a	Construction Details Not Available
n/a	54 Farm	n/a	Construction Details Not Available

Animals at Ex. 6 Personal Privacy (PP) LLC are held in total confinement with the exception of the concrete lots at the K Farm and the concrete barnyard at the Ex. 6 Personal Privacy (PP) Farm.

Manure from the animal housing is handled through WDNR-approved manure storage and transfer systems in place at the Farm. The manure separation and manure storage structures at Ex. 6 Personal Privacy (PP) LC have been designed to meet appropriate USDA-NRCS practice standards to further ensure that groundwater impacts do not occur.

1.3 Previous 5-Year Permit Summary

Over the past 5-year permit term, Ex. 6 Personal Privacy (PP) LC has made several upgrades and additions. Plan and Specification packages were submitted to the WDNR and Kewaunee County Land and Water Conservation Department (LWCD) for review and approval prior to construction, and post-construction documentation was submitted upon completion. A summary of the changes made during the previous 5-year permit term, January 1, 2014 through December 31, 2018, is provided below:

- On May 8, 2014, WDNR approved plans for construction of a feed storage pad at the Main Facility (File Ref: R-2014-0079). The feed storage pad is 600 ft by 300 ft with a 6-inch thick fiber mesh reinforced concrete slab and 1.5-inch asphalt work surface, complete with drain tile beneath the pad. As part of the WDNR approval, an annual site inspection was required to be completed by NRCS State Engineer, John Ramsden or his designee each year to view the performance of the fiber mesh concrete as part of the research process for updates to Wisconsin Construction Specification 4-Concrete. Site inspections of the fiber mesh feed pad were completed by Ramsden in 2015 and 2016. When the 2018 inspection was requested, Ramsden recommended that no further inspections were warranted as the fiber mesh concrete pad is performing as expected. A post-construction report was submitted to WDNR on October 16, 2014 with an addendum to the post construction report submitted on October 23, 2015.



- On December 1, 2014, a manure transfer pipeline extension of approximately 3,324 ft was approved by WDNR to connect existing riser pipes at the [Ex. 6 Personal Privacy (PP)] Farm to the Main Facility (File Ref: R-2014-0248). The manure transfer pipeline consists of 8-inch diameter DR18 PVC pipe. A post-construction report was submitted to WDNR on July 2, 2015.
- On July 2, 2015, WDNR approved plans for construction of a manure and sand separation system and flush flume transfer system at the Main Facility (File Ref: R-2015-0094). The flush flume system replaced the existing manure transfer channels inside Freestall Barns #1, #2 and #3 with an 18 and 24 inch HDPE N12 transfer pipe. The manure and sand separation building is 192 ft by 80 ft and contains two (2) Wieser W20000 reception tanks, sand lanes, transfer pipes, stacking area and a McLanahan VD6 sand separator. A post construction report was submitted to WDNR on February 22, 2016 with an addendum to the post-construction report submitted May 20, 2016.
- On August 21, 2015, WDNR approved plans for a shallow holding area tank, concrete channel and waste transfer pipelines for flushing manure and wastewater from the new milking parlor holding area (File Ref: R-2015-0157). A post construction report was submitted to WDNR on February 22, 2016.
- A WDPES permit modification effective October 1, 2015 was issued to include an animal unit threshold of up to 8,677 animal units.
- On August 5, 2016, WDNR approved the evaluations for WSP #1 and WSP #2 at the S Farm for use under [Ex. 6 Personal Privacy (PP)] LLC WPDES Permit WI-0062235 (File Ref: R-2016-0074). In addition, a well setback waiver was issued to allow WSP #1 to be located within 250 ft of a groundwater supply well (File Ref: R-2016-0074).

2. Manure Storage

The Farm currently uses the following waste storage facilities. The total volume, freeboard volume, 25-year, 24-hour storm volume and usable volumes for each structure are included in Table 1 and the waste storage and leachate pond sizing calculations are included in Appendix C.

- WSP #1 (Main Facility) – a concrete lined waste storage pond with an approximate top area of 26,581 ft² by 14 ft deep. The usable capacity of the storage is approximately 1,544,380 gallons.
- WSP #2 (Main Facility) – a concrete lined waste storage pond with an approximate top area of 78,663 ft² by 14 ft deep. The usable capacity of the storage is approximately 5,692,377 gallons.
- WSP #3 (Main Facility) – a concrete lined waste storage pond with an approximate top area of 111,450 ft² by 14.5 ft deep. The usable capacity of the storage is approximately 8,534,645 gallons.
- Runoff Collection Pond (K Farm) – a concrete lined waste storage pond with an approximate top area of 27,730 ft² by 14 ft deep. The usable capacity of the storage is approximately 1,085,871 gallons.
- WSP #1 [Ex. 6 Personal Privacy (PP)] Farm) – a clay lined waste storage pond with an approximate top area of 289 ft by 256 ft by 17 ft deep. The usable capacity of the storage is approximately 5,844,619 gallons.



- WSP #2 [Ex. 6 Personal Privacy (PP)] Farm) – a clay lined waste storage pond with an approximate top area of 265 ft by 245 ft by 25.2 ft deep. The usable capacity of the storage is approximately 5,172,742 gallons.
- Leachate Basin [Ex. 6 Personal Privacy (PP)] Farm) – a concrete lined leachate storage pond with an approximate top area of 97 ft by 100 ft by 7.5 ft deep. The usable capacity of the storage is approximately 268,314 gallons.
- WSP #1 (S Farm) – an earthen lined waste storage pond with a concrete bottom and an approximate top area of 85 ft by 85 ft by 4.3 ft deep. The usable capacity of the storage is approximately 118,182 gallons.
- WSP #2 [Ex. 6 Personal Privacy (PP)] Farm) – an in-place earth waste storage pond with an approximate top area of 210 ft by 105 ft by 15 ft deep. The usable capacity of the storage is approximately 1,215,476 gallons.
- 54 Slurrystore Tank (54 Farm) – a round Slurrystore tank with an approximate dimensions of 101 ft in diameter by 20 ft deep. The usable capacity of the storage is approximately 1,117,169 gallons

Based on the total useable capacity available among the facilities, [Ex. 6 Personal Privacy (PP)] LLC has a useable liquid storage capacity of 30,593,775 gallons for storage of liquid manure and wastewater. Following construction of the new leachate pond, the total usable liquid storage capacity will be 35,945,725 gallons.

3. Manure and Wastewater Production

3.1 Current Operations

Sources of manure and wastewater on the Farm include milking cows, dry cows, heifers, calves and beef cattle, silage leachate and precipitation runoff from the feed storage areas, milking parlor wastewater, and precipitation less evaporation on the surface of the waste storage ponds. Manure quantity estimates are based on USDA-NRCS book values including dilution factors and historic Farm records.

The Farm currently houses 4,350 milking and dry cows, 1,075 heifers (800-1,200 pounds (lbs)), 727 heifers (400-800 lbs), 2,279 calves (0-400 lbs) and 484 beef cattle (400 lb-market) for a total of 8,915 animals or 8,649 animal units (AUs), as shown in Table 2. Annual manure and wastewater volumes generated on the Farm include 45,048,893 gallons of manure and 17,050,422 gallons of wastewater from silage leachate and precipitation runoff from the Main Facility and [Ex. 6 Personal Privacy (PP)] Farm, precipitation on the concrete barnyard surface at the K Farm and precipitation less evaporation on the surfaces of the waste storage ponds and leachate storage pond, for a total annual manure and wastewater production of 62,099,315 gallons, as shown in Table 3. In addition, approximately 28,235 tons of solid manure and discarded bedding are currently produced annually on the Farm.

The estimated breakdown of manure and wastewater, silage leachate and precipitation runoff generated on the Farm on an annual basis is as follows:

**Table 3.1 Existing Annual Manure and Wastewater Production Summary**

Source	Estimate Volume
Liquid Manure	45,048,893 gallons
Silage Leachate (Main Facility Old Feed Storage)	74,800 gallons
Precipitation Runoff (Main Facility Old Feed Storage)	818,297 gallons
Silage Leachate (Ex. 6 Personal Privacy (PP) Farm)	108,460 gallons
Precipitation Runoff (Ex. 6 Personal Privacy (PP) Farm)	3,110,643 gallons
Silage Leachate (Main Facility)	299,200 gallons
Precipitation Runoff (Main Facility)	5,319,898 gallons
Precipitation Runoff (K Farm Concrete Barnyard)	1,863,270 gallons
Precipitation minus Evaporation – WSPs & Leachate Basin	<u>5,455,855 gallons</u>
Total Annual Liquid Production:	62,099,315 gallons

As shown in Table 3, the usable capacity of the existing waste storage structures and leachate pond on the Farm is approximately 30,593,775 gallons. Based on this usable capacity and the current annual production of manure and wastewater, silage leachate, feed pad precipitation runoff, concrete barnyard precipitation runoff and precipitation less evaporation on the surfaces of the ponds of 62,099,315 gallons, there are approximately 180 days of storage capacity available for liquid manure and wastewater.

3.2 Proposed Expansion

Within the next 5-year permit term, the Farm will expand to house 5,000 milking and dry cows, 1,100 heifers (800-1,200 lbs), 1,100 heifers (400-800 lbs), 2,200 calves (0-400 lbs) and 1,300 beef cattle (400 lb-market) for a total of 10,700 animals or 10,610 AUs, as shown in Table 4. While there will be modest growth in animal numbers at the Main Facility and Ex. 6 Personal Privacy (PP) locations due the Farm's low cull rate and internal growth, the majority of the growth in animals will take place at the K Farm as the beef raising enterprise grows.

In addition, the Farm plans to expand the existing feed storage area and construct a new leachate management pond at the Main Facility. Following construction of the additional feed pad and leachate pond, the Farm plans to separate manure storage from silage leachate and feed pad precipitation runoff storage from the Main Facility and Ex. 6 Personal Privacy (PP) Farms. Silage leachate and precipitation runoff from the Ex. 6 Personal Privacy (PP) Farm and the western feed area at the Main Facility will be stored in the proposed leachate management pond. Note that a small portion of the silage leachate and precipitation runoff from the Ex. 6 Personal Privacy (PP) Farm will be stored in the existing Longfellow WSP #2 during design storms only. Precipitation runoff and silage leachate from the Old Feed Storage Area at the Main Facility will continue to be treated through the existing VTA and stored in the existing Main Facility WSP #2 using the previously WDNR approved leachate collection system.



3.2.1 Comingled Manure and Wastewater

The annual manure and wastewater volumes generated on the Farm that will be comingled in the waste storage ponds will include approximately 52,545,218 gallons of manure and 8,168,089 gallons of wastewater from silage leachate and precipitation runoff from the Old Feed Storage Area at the Main Facility, a portion of precipitation runoff from [Ex. 6 Personal Privacy (PP)] Farm during design storm events only, precipitation on the concrete barnyard surface at the K Farm and precipitation less evaporation on the surfaces of the waste storage ponds, for a total volume of 60,713,307 gallons, as shown in Table 5. In addition, approximately 43,943 tons of solid manure and discarded bedding will be produced annually on the Farm.

The estimated breakdown of manure and wastewater generated on the Farm that will be comingled in the existing waste storage ponds will be as follows:

Table 3.2 Proposed Annual Manure and Wastewater Production Summary

Source	Estimate Volume
Liquid Manure	52,545,218 gallons
Silage Leachate (Main Facility Old Feed Storage)	74,800 gallons
Precipitation Runoff (Main Facility Old Feed Storage)	818,297 gallons
Precipitation Runoff (Portion from [Ex. 6 Personal Privacy (PP)] Farm)	78,850 gallons
Precipitation Runoff (K Farm Concrete Barnyard)	1,863,270 gallons
Precipitation minus Evaporation – WSPs only	<u>5,322,873 gallons</u>
Total Annual Liquid Production:	60,713,307 gallons

As shown in Table 5, the usable capacity of only the waste storage structures on the Farm is approximately 30,325,461 gallons. Based on this usable capacity and the proposed annual production of comingled manure and wastewater of 60,713,307 gallons, there are approximately 182 days of storage capacity available for liquid manure and wastewater.

3.2.2 Silage Leachate and Precipitation Runoff

The annual wastewater volumes generated on the Farm from silage leachate and feed pad precipitation runoff storage at the Main Facility and [Ex. 6 Personal Privacy (PP)] Farm will be stored separately from manure storage in the existing and proposed leachate structures. This volume will include approximately 11,668,176 gallons of wastewater, as shown in Table 5.

The estimated breakdown of wastewater generated on the Farm that will be stored separately in the existing leachate basin at [Ex. 6 Personal Privacy (PP)] Farm and the proposed leachate management pond at the Main Facility will be as follows:



Table 3.3 Proposed Annual Leachate Production Summary

Source	Estimate Volume
Silage Leachate (Ex. 6 Personal Privacy (PP) Farm)	108,460 gallons
Precipitation Runoff (Ex. 6 Personal Privacy (PP) Farm)	2,640,569 gallons
Silage Leachate (Main Facility)	407,660 gallons
Precipitation Runoff (Main Facility)	7,269,618 gallons
Precipitation minus Evaporation – Leachate ponds only	<u>1,241,869 gallons</u>
Total Annual Liquid Production:	11,668,176 gallons

As shown in Table 5, the usable capacity of only the leachate storage structures on the Farm is approximately 4,620,264 gallons. Based on this usable capacity and the proposed annual production of leachate, feed pad precipitation runoff and precipitation less evaporation on the surface of the leachate pond of 11,668,176 gallons, there are approximately 145 days of storage capacity available for liquid wastewater.

4. Manure and Wastewater Transfer Systems

Sources of manure and wastewater on the Farm include milking cows, dry cows, heifers, calves and beef cattle, silage leachate and precipitation runoff from the feed storage areas, milking parlor wastewater, and precipitation less evaporation on the surface of the waste storage and leachate ponds. Manure quantity estimates are based on USDA-NRCS book values including dilution factors and historic Farm records.

4.1 Main Facility

At the Main Facility, manure from the freestall barns is manually scraped with a skid steer three times a day to a flush flume in the center of the freestall barns and then to the sand separation building where sand and manure solids are separated from the waste stream. Recycled sand and manure solids are reused as bedding. Separated manure solids are stacked on the concrete pad next to the separation building and are hauled to the K Farm and (Ex. 6 Personal Privacy (PP) Farm) for use as bedding. Any runoff from this area gravity drains into WSP #3. Separated sand is stored on the stacking area inside the solids separation building. Following separation, remaining liquid is pumped to the WSPs. Solid manure and bedding from the hospital barn is collected every month and temporarily stacked north of the milking parlor prior to transferring it to crop fields according to the Farm's NMP or it is stored with the separated manure solids. Milking parlor wastewater is used in the sand separation process. The separation system design employs a closed loop where water for flushing the flume and washing sand is recycled from uses on the Farm.

4.2 K Farm

At the K Farm, manure and bedded pack is scraped from the concrete barnyards daily into the runoff collection pond. The bedded pack barns are cleaned four times each year and manure is land applied according to the Farm's NMP.



4.3 Ex. 6 Personal Privacy (PP) Farm

At the Ex. 6 Personal Privacy (PP) Farm manure from freestall barns #1, #2 and the special needs barn is scraped with a skid steer into a barn cleaner channel which discharges into WSP #1. Manure from the three row freestall barn and heifer/dry cow freestall barn is scraped with a skid steer into a reception tank and pumped to WSP #1. The manure from the southernmost heifer barn is handled as bedded pack and land applied according to the Farm's NMP when the bedded packs are cleaned.

5. Nutrient Management Plan

The primary goal of the cropping plan is to meet the nutritional needs of the animals housed on Farm. The Farm has adopted a WDNR-approved NMP conforming to NR 243.14 and applicable CPS 590 – Nutrient Management standards that is updated annually. The NMP accounts for the manure and wastewater volumes generated during day to day farming activities that are used as fertilizer for crops via land application. Land application procedures are planned and implemented in a way that minimizes potential adverse impacts to the environment and public health. The NMP is prepared and updated annually by Nick Guilette of AgSource Laboratories in Bonduel, Wisconsin. The NMP will be submitted to the WDNR under separate cover.

6. Changes for WPDES Permit Renewal

During the next WPDES permit term, Ex. 6 Personal Privacy (PP) LLC plans to complete the following items:

- Main Facility - Construction of additional feed storage area, concrete collection channel, leachate management pond (LMP) and re-routing the utilities and manure transfer pipeline around the proposed construction. Plans and Specification for these upgrades were submitted to the WDNR Online Permitting System by GHD (see GHD Report 053142(37)).
- Ex. 6 Personal Privacy (PP) Farm - Abandonment of the West Concrete Barnyard (approximately 8,430 square feet) and installation of approximately 220 ft of roof gutter on the west and south sides of the existing freestall barn (216 ft x 103 ft) located west of the feed storage area in order to exclude roof water from the collection system.
- 54 Farm - Complete an engineering evaluation of the existing Harvestore tank. The evaluation will be completed by Foxland Harvestore, Inc. of Kaukauna Wisconsin, an authorized Slurrystore dealer, and CST Industries of DeKalb, Illinois. The engineering evaluation will be provided to WDNR under separate cover.
- Install permanent markers (margin of safety and maximum operating level) in all liquid manure and process wastewater storage facilities. Marker installation will be completed by December 31, 2018.
- Install fencing around liquid manure and process waste storage facilities. Fencing installation will be completed by December 31, 2018.

Figures

Ex. 6 Personal Privacy (PP)

Source: Kewaunee County

0 1,000 2,000 3,000 ft

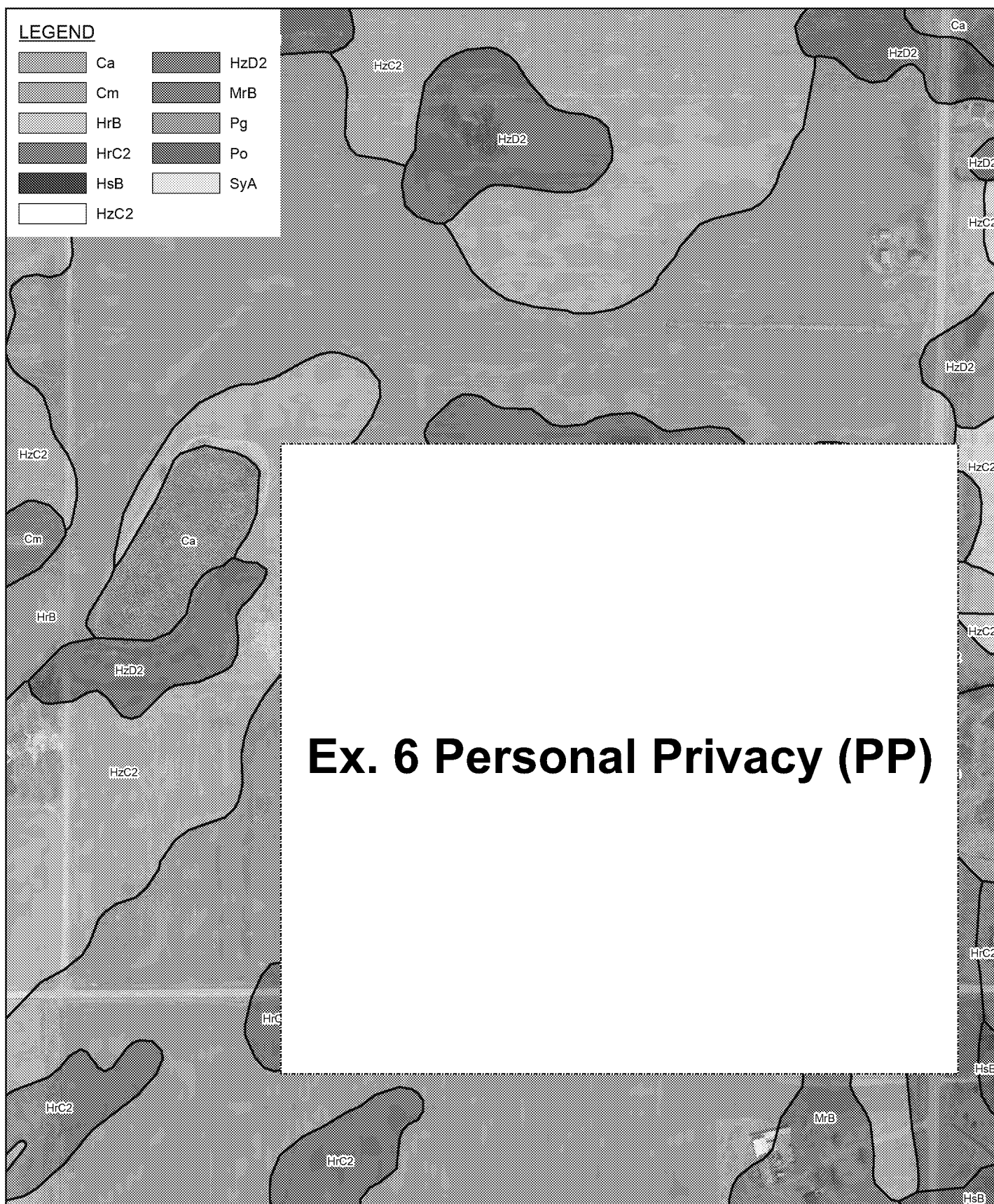


Ex. 6 Personal Privacy (PP) LLC
KEWAUNEE COUNTY, WISCONSIN
WPDES PERMIT RENEWAL APPLICATION

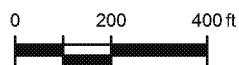
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PLAT MAP

FIGURE 1



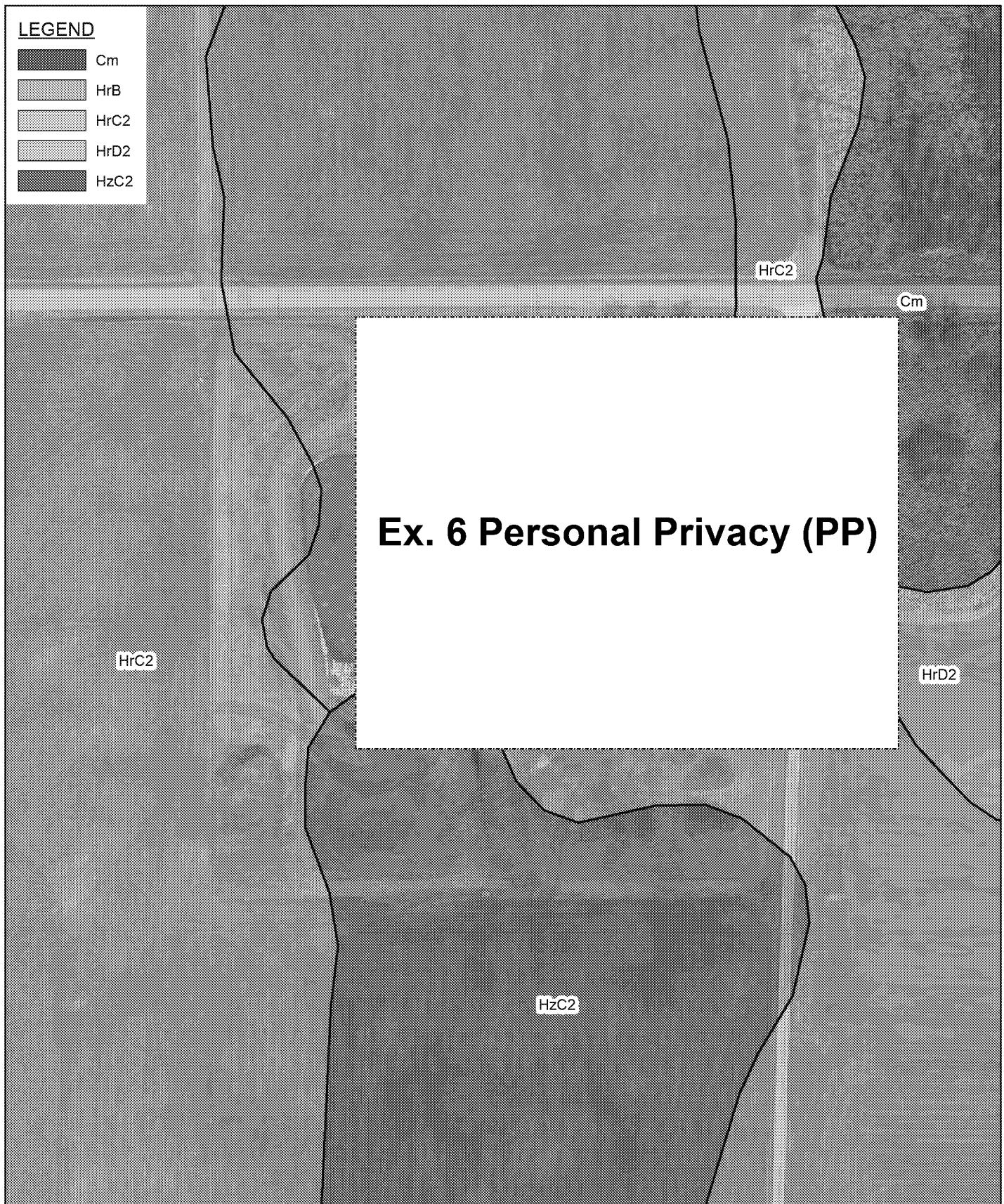
Source: USDA FSA Natural Resources Conservation Service



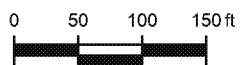
Ex. 6 Personal Privacy (PP)
 KEWAUNEE COUNTY, WISCONSIN
 WPDES PERMIT RENEWAL APPLICATION
 SSURGO SOILS MAP
 MAIN FACILITY

053142-53
 Jun 21, 2018

FIGURE 2



Source: USDA FSA Natural Resources Conservation Service



Ex. 6 Personal Privacy (PP)

LLC

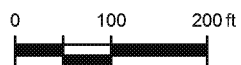
KEWAUNEE COUNTY, WISCONSIN
 WPDES PERMIT RENEWAL APPLICATION
SSURGO SOILS MAP
K FARM

053142-53
 Jun 21, 2018

FIGURE 3



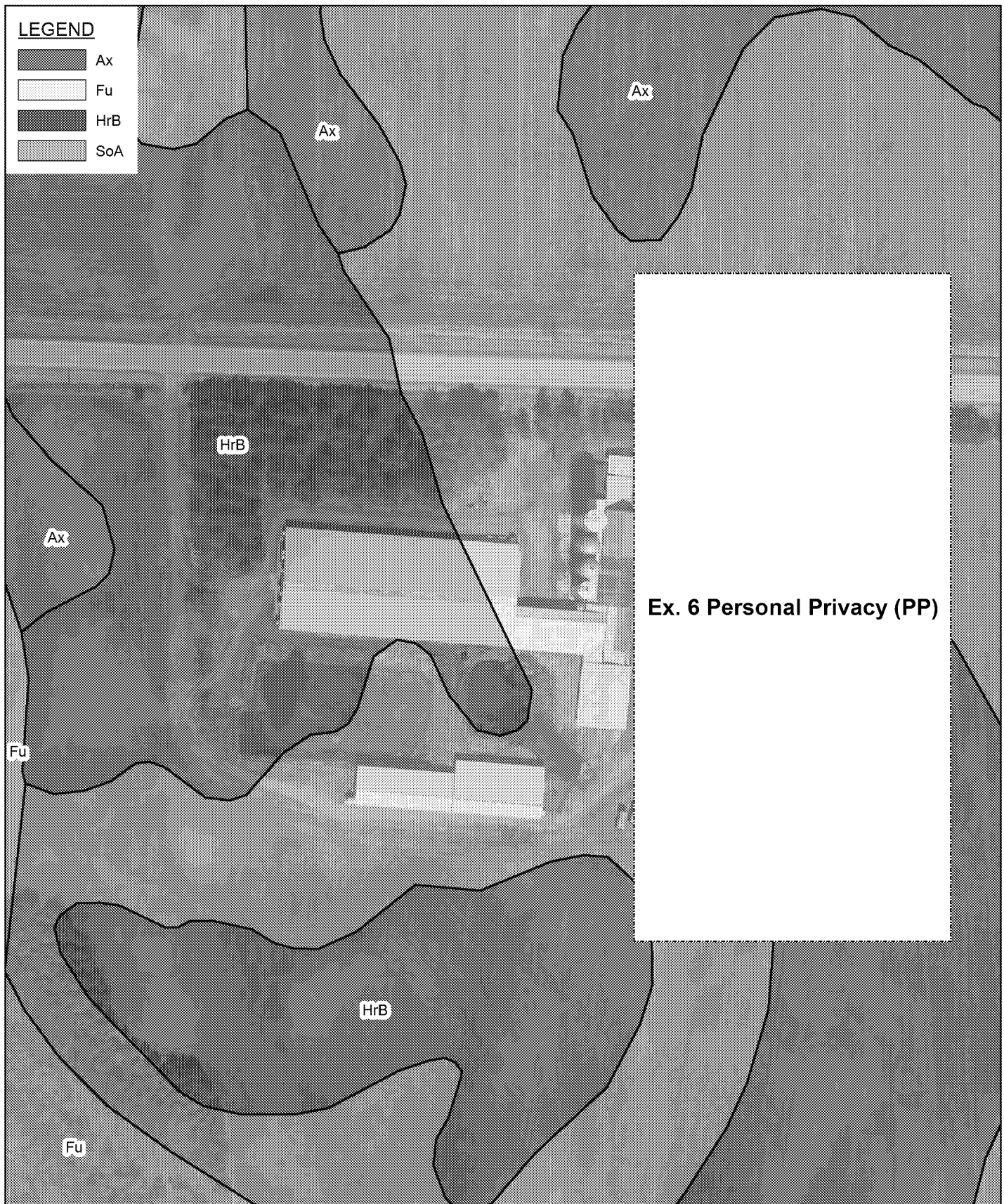
Source: USDA FSA Natural Resources Conservation Service



Ex. 6 Personal Privacy (PP) LLC
 KEWAUNEE COUNTY, WISCONSIN
 WPDES PERMIT RENEWAL APPLICATION
 SSURGO SOILS MAP
 Ex. 6 Personal Privacy (PP) FARM

053142-53
 Jun 21, 2018

FIGURE 4



Source: USDA FSA Natural Resources Conservation Service

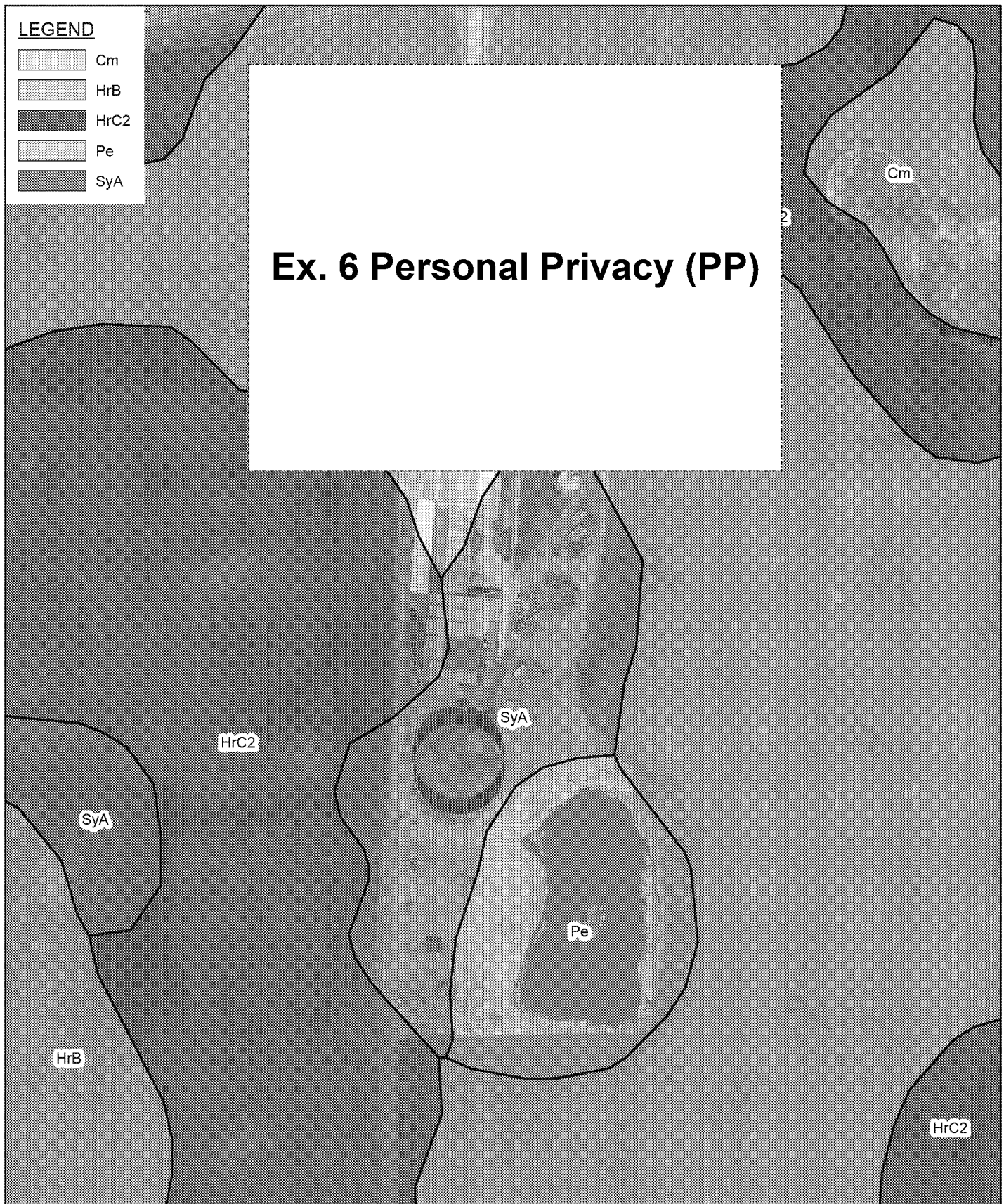
0 50 100 150 ft



Ex. 6 Personal Privacy (PP) LLC
KEWAUNEE COUNTY, WISCONSIN
WPDES PERMIT RENEWAL APPLICATION
SSURGO SOILS MAP
S FARM

053142-53
Jun 29, 2018

FIGURE 5



Source: USDA FSA Natural Resources Conservation Service

0 50 100 150 ft









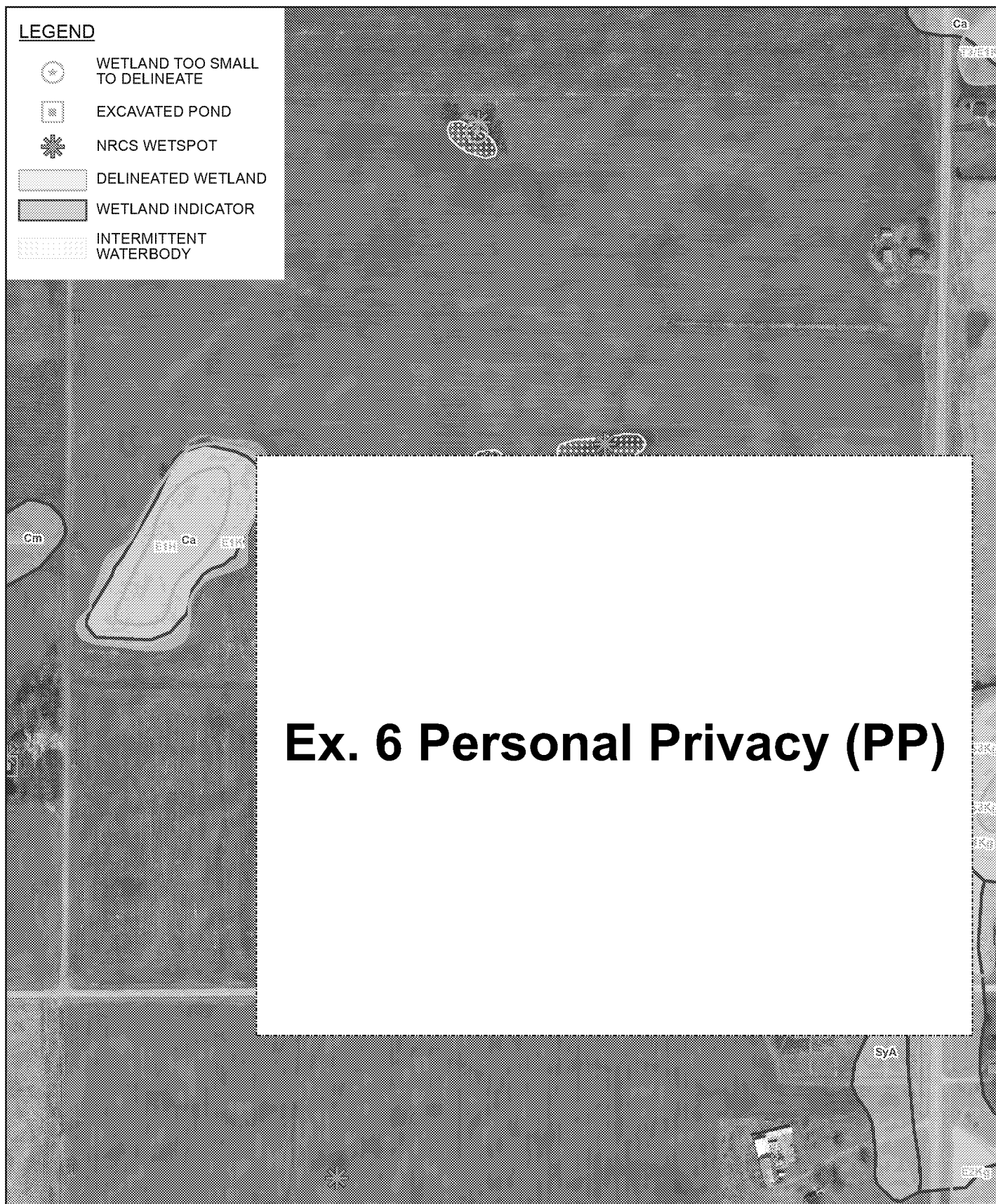
Ex. 6 Personal Privacy (PP) LLC
KEWAUNEE COUNTY, WISCONSIN
WPDES PERMIT RENEWAL APPLICATION
SSURGO SOILS MAP
54 FARM

053142-53
Jun 29, 2018

FIGURE 6

LEGEND

-  WETLAND TOO SMALL TO DELINEATE
-  EXCAVATED POND
-  NRCS WETSPOT
-  DELINEATED WETLAND
-  WETLAND INDICATOR
-  INTERMITTENT WATERBODY



Source: WDNR Wisconsin Wetland Inventory; USDA FSA Natural Resources Conservation Service

0 200 400 ft






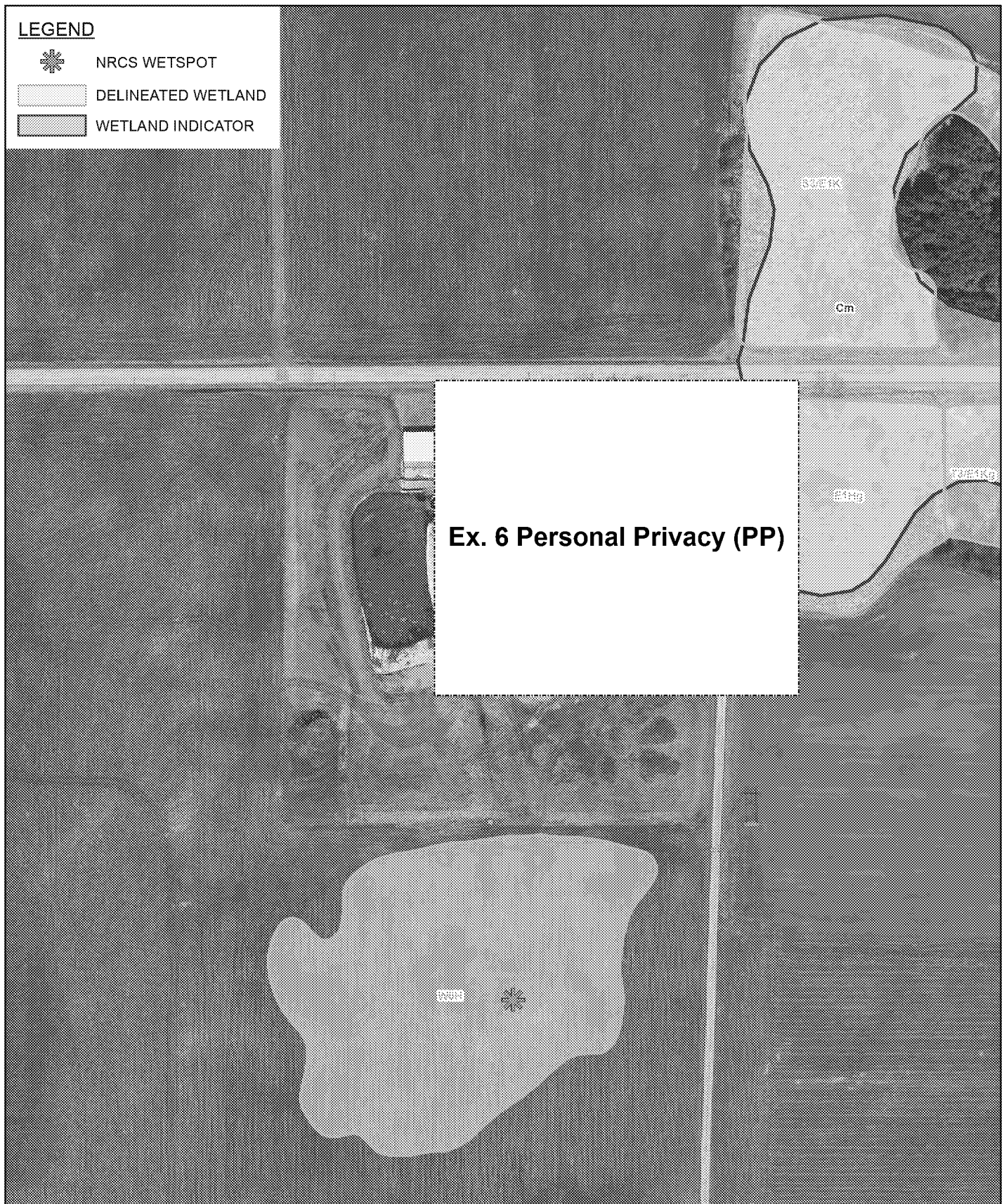
Ex. 6 Personal Privacy (PP) LLC
 KEWAUNEE COUNTY, WISCONSIN
 WPDES PERMIT RENEWAL APPLICATION
 WETLANDS AND W SOILS
 MAIN FACILITY

053142-53
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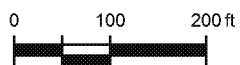
FIGURE 7

LEGEND

-  NRCS WETSPOT
-  DELINEATED WETLAND
-  WETLAND INDICATOR



Source: WDNR Wisconsin Wetland Inventory; USDA FSA Natural Resources Conservation Service



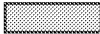
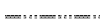


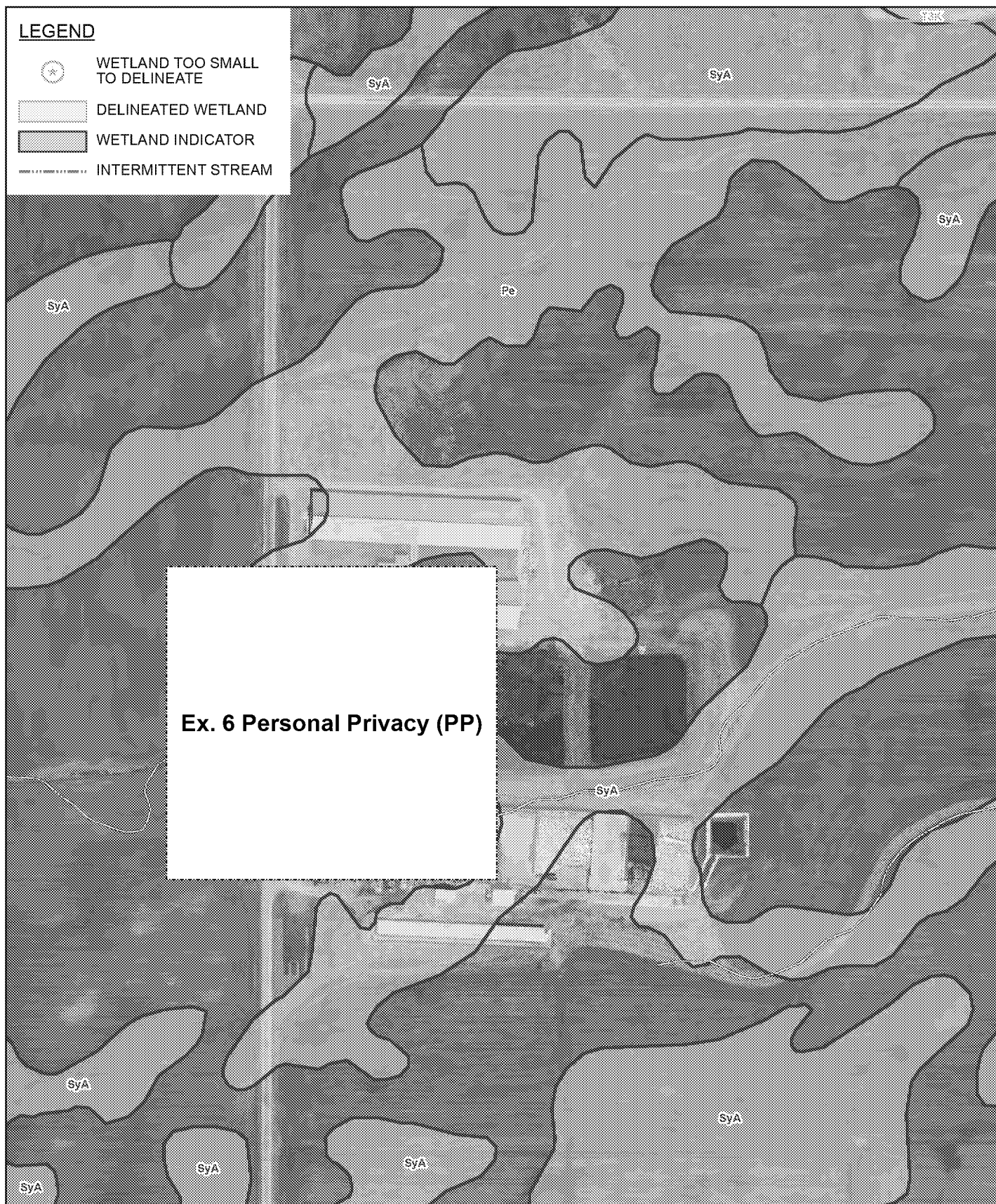
Ex. 6 Personal Privacy (PP) LLC
KEWAUNEE COUNTY, WISCONSIN
WPDES PERMIT RENEWAL APPLICATION
WETLANDS AND W SOILS
K FARM

053142-53
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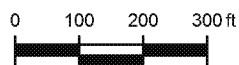
FIGURE 8

LEGEND

-  WETLAND TOO SMALL TO DELINEATE
-  DELINEATED WETLAND
-  WETLAND INDICATOR
-  INTERMITTENT STREAM



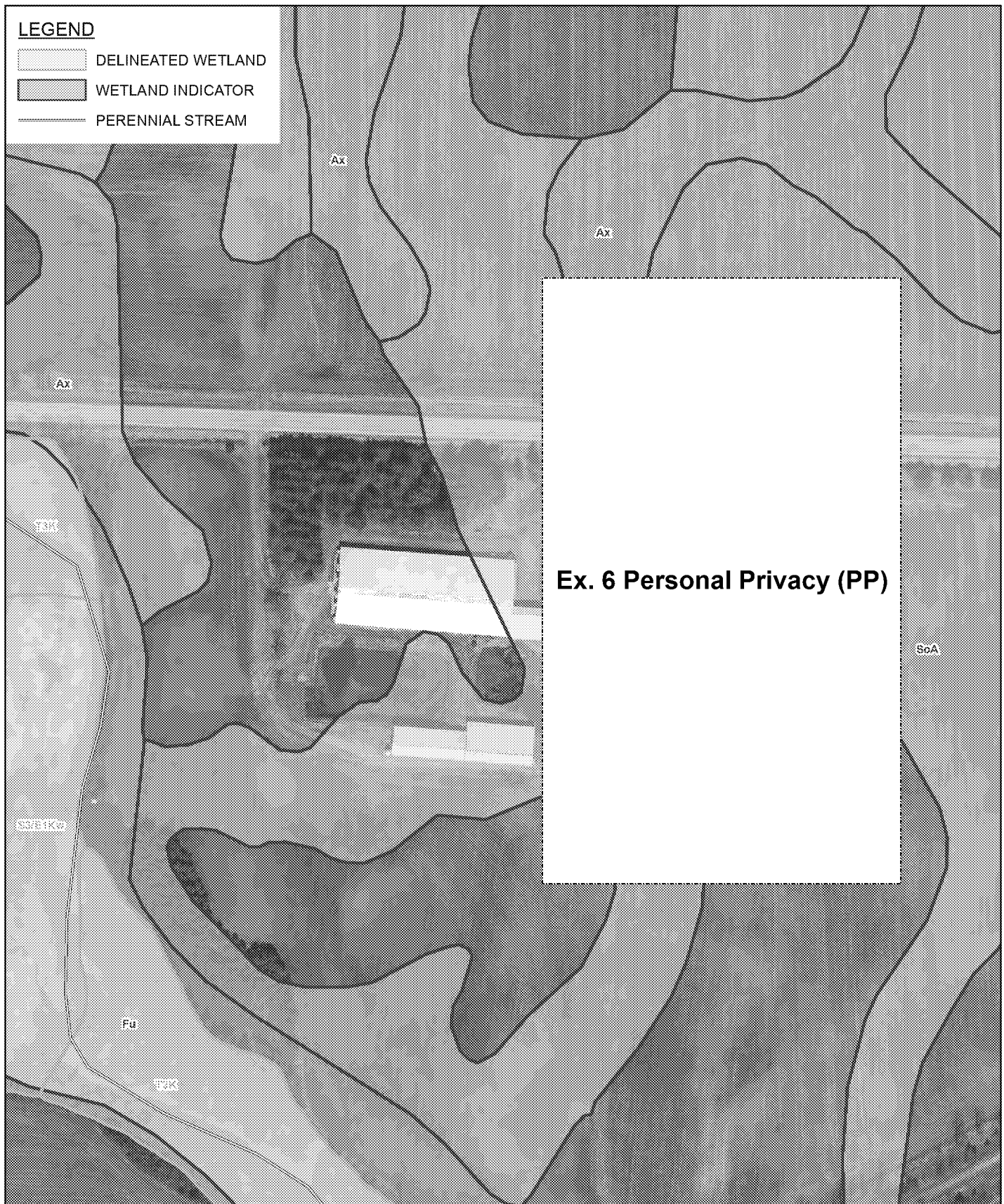
Source: WDNR Wisconsin Wetland Inventory; USDA FSA Natural Resources Conservation Service



Ex. 6 Personal Privacy (PP) LLC
 KEWAUNEE COUNTY, WISCONSIN
 WPDES PERMIT RENEWAL APPLICATION
WETLANDS AND W SOILS
Ex. 6 Personal Privacy (PP) FARM

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FIGURE 9



Source: WDNR Wisconsin Wetland Inventory; USDA FSA Natural Resources Conservation Service

0 100 200 ft



Ex. 6 Personal Privacy (PP) LLC
 KEWAUNEE COUNTY, WISCONSIN
 WPDES PERMIT RENEWAL APPLICATION
 WETLANDS AND W SOILS
 S FARM

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FIGURE 10

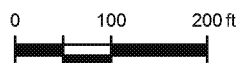
	WETLAND TOO SMALL TO DELINEATE
	EXCAVATED POND
	DELINEATED WETLAND
	WETLAND INDICATOR
	PERENNIAL WATERBODY

LEGEND

- WETLAND TOO SMALL TO DELINEATE
- EXCAVATED POND
- DELINEATED WETLAND
- WETLAND INDICATOR
- PERENNIAL WATERBODY

Ex. 6 Personal Privacy (PP)

Source: WDNR Wisconsin Wetland Inventory; USDA FSA Natural Resources Conservation Service



Ex. 6 Personal Privacy (PP) LLC
KEWAUNEE COUNTY, WISCONSIN
WPDES PERMIT RENEWAL APPLICATION
WETLANDS AND W SOILS
54 FARM

053142-53
Jun 29, 2018

FIGURE 11

Ex. 6 Personal Privacy (PP)

Source: USGS 7.5 Minute Quads - Casco; Algoma

0 1,000 2,000 3,000 ft

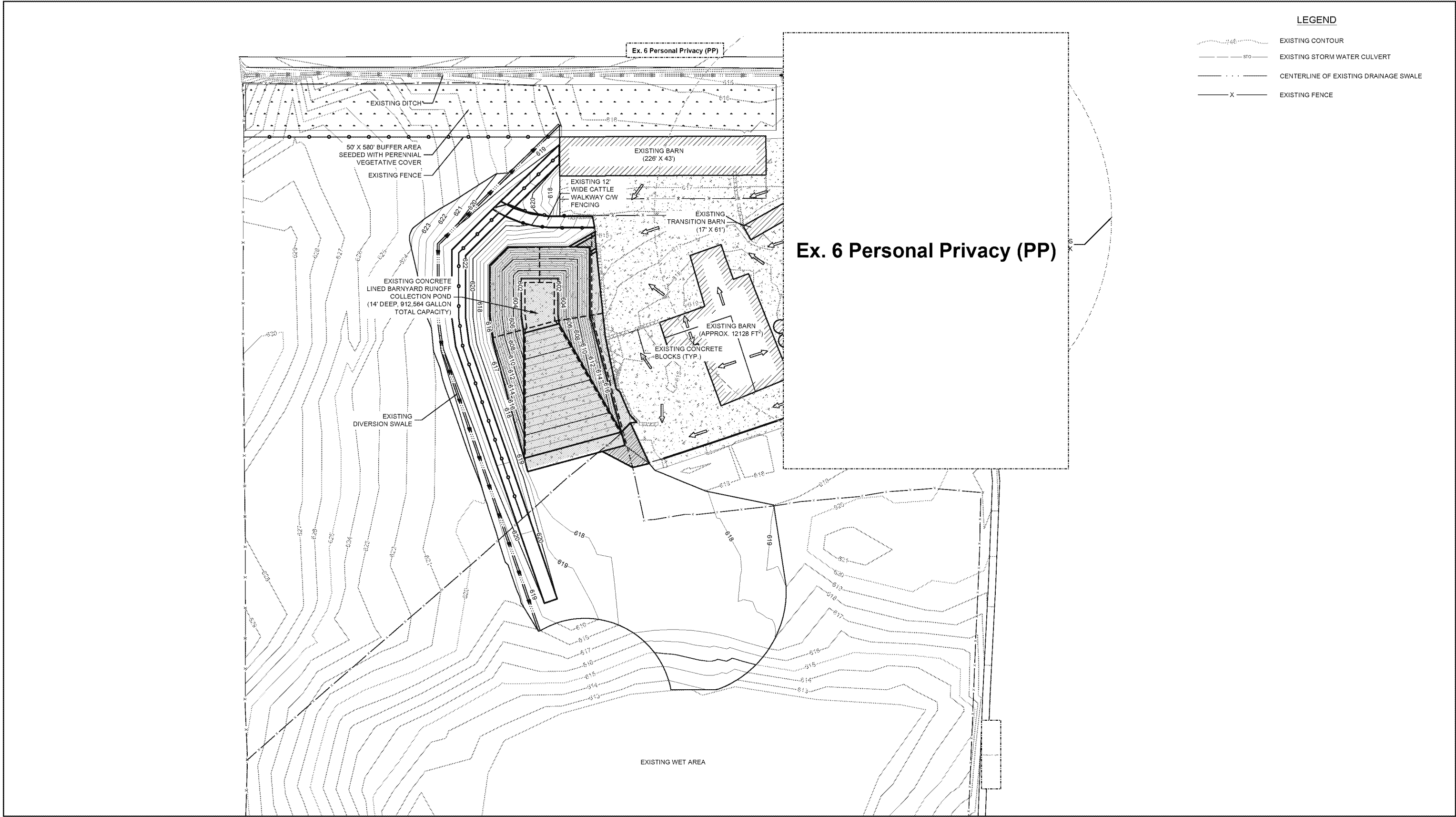


Ex. 6 Personal Privacy (PP) LLC
KEWAUNEE COUNTY, WISCONSIN
WPDES PERMIT RENEWAL APPLICATION

053142-53
Jun 29, 2018

TOPOGRAPHIC MAP

FIGURE 12



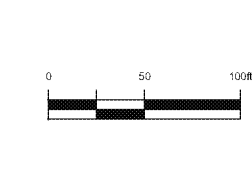
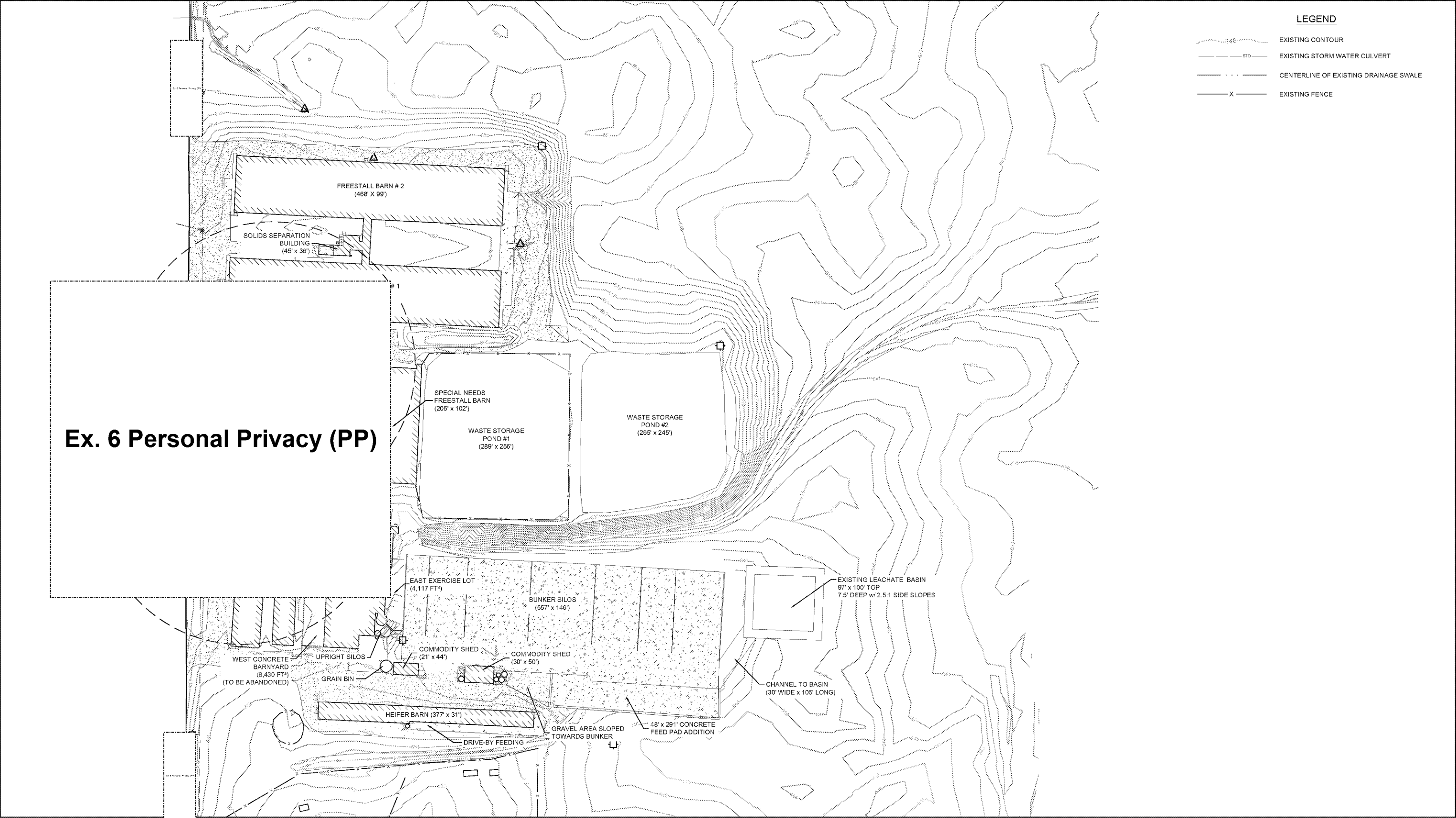
Ex. 6 Personal Privacy (PP)



Ex. 6 Personal Privacy (PP) LC
KEWANUEE COUNTY, WISCONSIN
WPDES PERMIT RENEWAL APPLICATION
**SITE PLAN - K FACILITY
EXISTING CONDITIONS**

053142-53(036)
Jun 27, 2018

FIGURE 14



Ex. 6 Personal Privacy (PP) LLC
KEWANUEE COUNTY, WISCONSIN
WPDES PERMIT RENEWAL APPLICATION
SITE PLAN - Ex. 6 Personal Privacy (PP) FARM
EXISTING CONDITIONS

053142-53(036)
Jun 27, 2018

FIGURE 15

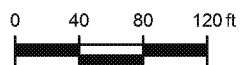
LEGEND

- WATER SUPPLY WELL
- ===== 250-FT WELL SETBACK



Ex. 6 Personal Privacy (PP)

Source: Kewaunee County



Ex. 6 Personal Privacy (PP) LLC
 KEWAUNEE COUNTY, WISCONSIN
 WPDES PERMIT RENEWAL APPLICATION
 EXISTING CONDITIONS
 S FARM

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FIGURE 16

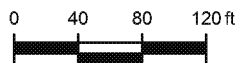
LEGEND



Ex. 6 Personal Privacy (PP)



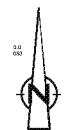
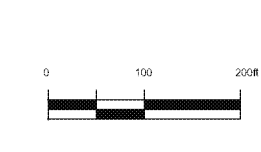
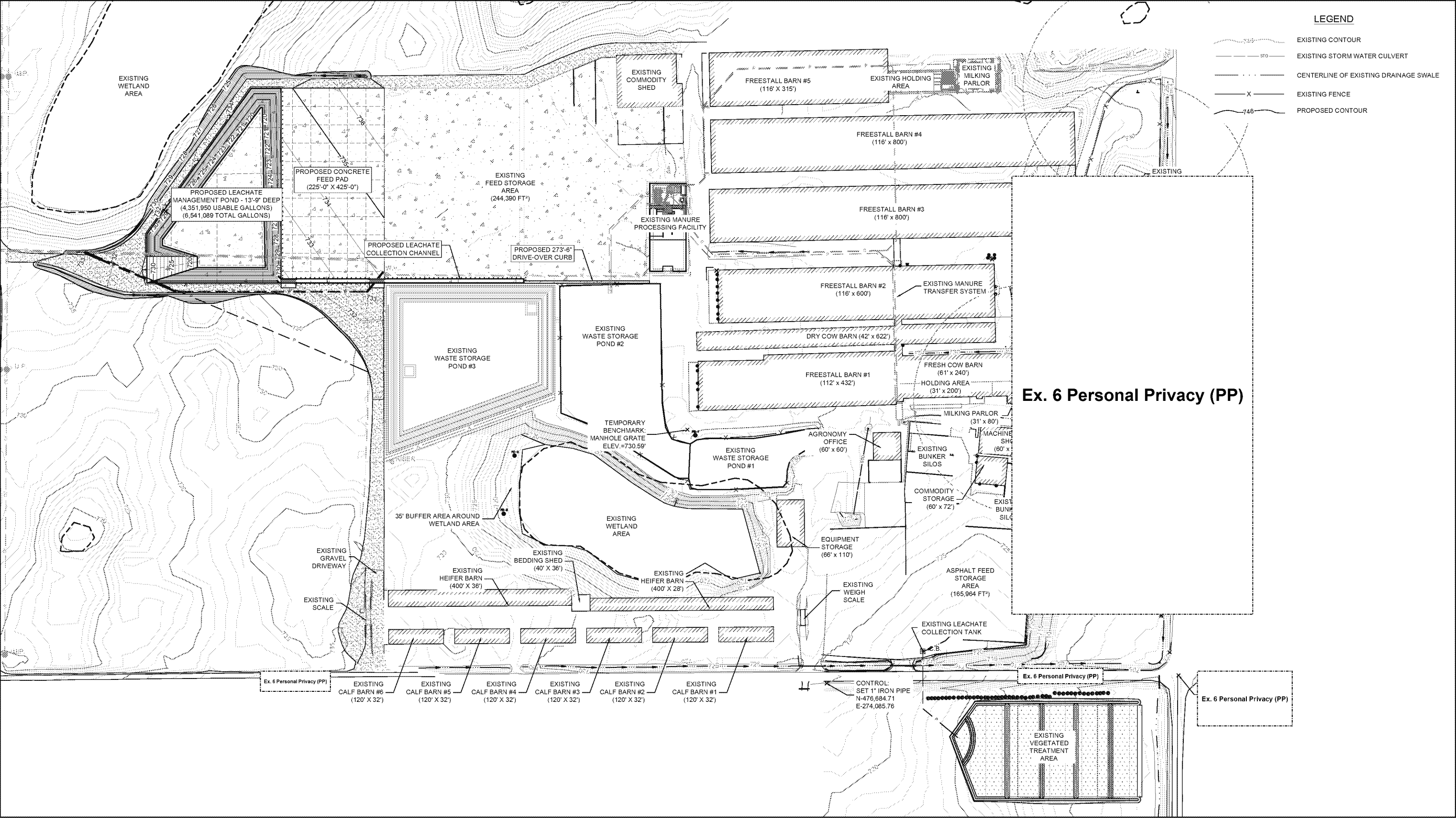
Source: Kewaunee County



Ex. 6 Personal Privacy (PP) LC
KEWAUNEE COUNTY, WISCONSIN
WPDES PERMIT RENEWAL APPLICATION
EXISTING CONDITIONS
54 FARM

053142-53
Jun 29, 2018

FIGURE 17



Ex. 6 Personal Privacy (PP) LLC.
KEWANUEE COUNTY, WISCONSIN
WPDES PERMIT RENEWAL APPLICATION
SITE PLAN - MAIN FACILITY
PROPOSED CONDITIONS

053142-53(036)
Jun 27, 2018

FIGURE 18

Tables

Table 1

Waste Storage Pond Summary

Ex. 6 Personal Privacy (PP), LLC

Ex. 6 Personal Privacy (PP), Kewaunee County, Wisconsin

Location	Structure Name	Area (ft ²)	Total Depth (ft)	Total Capacity (gal)	Useable Depth (ft)	Useable Capacity ⁽¹⁾ (gal)	25-yr, 24-hr Storm on Pond Surface (gal)	Freeboard Depth (ft)	Freeboard (gal)	Accumulated Solids ⁽²⁾ (gal)
Main Facility - Ex. 6 Personal Privacy (PP)	WSP #1 ^(Concrete Lined)	26,581	14	1,806,821	12.63	1,544,380	69,485	1	192,957	0
	WSP #2 ^(Concrete Lined)	78,663	14	6,482,238	12.63	5,692,377	211,230	1	578,631	0
	WSP #3 ^{(3)(Concrete Lined)}	111,450	14.5	9,655,670	13.13	8,534,645	300,098	1	820,926	0
K Farm - Ex. 6 Personal Privacy (PP)	Runoff Pond ^(Concrete Lined)	27,730	14	1,358,149	12.61	1,085,871	74,326	1	197,952	0
Ex. 6 Personal Privacy (PP)	WSP #1 ^(Clay Lined)	289' x 256'	17	7,247,527	13.61	5,844,619	211,269	1	545,287	646,352
	WSP #2 ^(Clay Lined)	265' x 245'	25.2	8,031,415	17.61	5,172,742	161,054	5	2,324,628	372,991
	Bunker Detention Basin	97' x 100'	7.5	363,248	6.10	268,314	25,999	1	68,934	0
S Farm - Ex. 6 Personal Privacy (PP)	WSP #1 ^(Earthen sides/Concrete Bottom)	85' x 85'	4.3	188,533	2.92	118,182	18,812	1	51,540	0
	WSP #2 ^(In Place Earth)	210' x 105'	15	1,548,360	11.62	1,215,476	59,655	1	160,261	112,968
Ed. Farms Ex. 6 Personal Privacy (PP)	Dad's Slurrystore Tank	8,012	20	1,198,572	18.64	1,117,169	21,474	1	59,929	0
Total =				37,880,533		30,593,775	1,153,402		5,001,045	1,132,311

Notes

(1) Volumes from tributary areas included within usable capacity.

(2) Two (2) foot of accumulated solids assumed in the bottom of clay or earthen lined structures.

Table 2

Current Herd Summary

Ex. 6 Personal Privacy (PP) LLC

Ex. 6 Personal Privacy (PP) Wisconsin

Livestock Type	Numbers	Average Weight (lb)	Animal Equivalency Factor ⁽¹⁾	AU ⁽²⁾	Location and Housing Type
Main Facility					
Milking Cows	3,800	1,300	1.4	5,320	Main Dairy Freestall Barns
Dry Cows	550	1,400	1.4	770	Main Dairy Freestall Barns
Heifers	75	800 - 1200	1.1	83	Main Dairy Freestall Barns
Heifers	13	400 - 800	0.6	8	Main Dairy Calf Barns
Calves	1,326	0 - 400	0.2	265	Main Dairy Calf Barns
Sub-total	5,764			6,446	
K Farm					
Beef Cattle	484	400 - Market	1.0	484	K Farm Barnyard and Outdoor Lot
Calves	311	0 - 400	0.2	62	K Farm Calf Barns
Sub-total	795			546	
Ex. 6 Personal Privacy (PP) Farm					
Calves	642	0 - 400	0.2	128	Farm Freestall Barn
Heifers	714	400 - 800	0.6	428	Farm Freestall Barn
Heifers	1,000	800 - 1,200	1.1	1,100	Farm Freestall Barn
Sub-total	2,356			1,657	
TOTAL	8,915			8,649	

Notes:

- (1) Animal equivalency factor based on WDNR NR 243
(2) AU - Animal units, calculated in accordance with WDNR NR 243

Table 3

Current Manure and Wastewater Quantity Summary

Ex. 6 Personal Privacy (PP), LLC

Ex. 6 Personal Privacy (PP), Wisconsin

Livestock Type	Numbers	Average Weight (lb)	Liquid ⁽¹⁾ (gal/d)	Liquid ⁽²⁾ (gal/year)	Solids Separation ⁽³⁾ (gal/year)	Solids Separation ⁽⁴⁾ (tons/year)	Total Liquid to Storage (gal/year)	Solid (lb/d)	Solid (tons/yr)
Main Facility									
Milking Cows	3,800	1,300	26	35,368,500	3,183,165	13,051	32,185,335	--	--
Dry Cows	550	1,400	20	3,914,625	352,316	1,444	3,562,309	--	--
Heifers	75	800 - 1,200	16	424,313	38,188	157	386,124	--	--
Heifers	13	400 - 800	--	--	--	--	--	21	50
Calves	1,326	0 - 400	--	--	--	--	--	13	3,146
Sub-total	5,764			39,707,438	3,573,669	14,652	36,133,768		3,196
K Farm									
Beef Cattle	484	400 - Market	--	--	--	--	--	92	8,126
Calves	311	0 - 400	--	--	--	--	--	13	738
Sub-total	795			0	0	0	0		8,864
Ex. 6 Personal Privacy (PP) Farm									
Calves	642	0 - 400	--	--	--	--	--	13	1,523
Heifers	714	400 - 800	13	3,257,625	--	--	3,257,625	--	0
Heifers	1,000	800 - 1200	16	5,657,500	--	--	5,657,500	--	0
Sub-total	2,356			8,915,125	0	0	8,915,125		1,523
Total	8,915			48,622,563	3,573,669	14,652	45,048,893		13,583
Silage Leachate ⁽⁵⁾ Main Dairy Old Feed Storage							74,800		
Runoff from Feed Storage Area ⁽⁶⁾ Main Dairy Old Feed Storage							818,297		
Silage Leachate ⁽⁷⁾ Ex. 6 Personal Privacy (PP) Farm							108,460		
Runoff from Feed Storage Area and Concrete Barnyards ⁽⁸⁾ Ex. 6 Personal Privacy (PP) Farm							3,110,643		
Silage Leachate ⁽⁹⁾ Main Dairy Feed Pad							299,200		
Runoff from Feed Pad ⁽¹⁰⁾ Main Dairy							5,319,898		
Runoff from Concrete Barnyards ⁽¹¹⁾ K Farm							1,863,270		
Precipitation minus Evaporation ⁽¹²⁾ Manure and Leachate Storage Structures							5,455,855		

Total Silage Leachate, Precipitation Runoff and Precipitation Less Evaporation = 17,050,422

Total Annual Liquid Collection = 62,099,315

Useable Waste Storage Capacity = 30,593,775

Total Manure Solids (tons) = 28,235

Days of Storage = 180

Notes:

(1) Liquid Manure Estimate based on farm production records.

(2) Bedding and other by-products not included.

(3) Solids separation is calculated based on a manure solids content of 12% and separation efficiency of 75%.

(4) One gallon of separated solids equals 0.0041 tons.

(5) Leachate volume based on 0.5 cubic feet per ton of stored feed for 20,000 tons of feed.

(6) Based on Wisconsin USDA-NRCS Feed Storage Runoff Spreadsheet and CPS 629. Values derived from collection of 0.20 inches of first flush precipitation runoff and annual rainfall data from Kewaunee County.

(7) Leachate volume based on 0.5 cubic feet per ton of stored feed for 29,000 tons of feed.

(8) Based on Wisconsin USDA-NRCS Feed Storage Runoff Spreadsheet and CPS 629. Values derived from 100% collection of precipitation runoff from the feed storage area, concrete barnyards and roof drainage from adjacent barns.

(9) Leachate volume based on 0.5 cubic feet per ton of stored feed for 80,000 tons of feed.

(10) Based on annual average statewide rainfall, a runoff curve of 98 and 5.99 acres of feed storage area.

(11) Based on direct precipitation on the concrete barnyard surface areas using State-wide rainfall data.

(12) Based on direct precipitation less evaporation on manure storage pond surface areas using State-wide rainfall data.

Table 4

Proposed Herd Summary

Ex. 6 Personal Privacy (PP) LLC

Ex. 6 Personal Privacy (PP) Wisconsin

Livestock Type	Numbers	Average Weight (lb)	Animal Equivalency Factor ⁽¹⁾	AU ⁽²⁾	Location and Housing Type
Main Facility					
Milking Cows	4,400	1,300	1.4	6,160	Main Dairy Freestall Barns
Dry Cows	600	1,400	1.4	840	Main Dairy Freestall Barns
Heifers	100	800 - 1200	1.1	110	Main Dairy Freestall Barns
Calves	1,200	0 - 400	0.2	240	Main Dairy Calf Barns
Sub-total	6,300			7,350	
K Farm					
Beef Cattle	1,300	400 - Mkt	1	1,300	K Farm Barnyard and Outdoor Lot
Calves	700	0 - 400	0.2	140	K Farm Calf Barns
Sub-total	2,000			1,440	
Ex. 6 Personal Privacy (PP) Farm					
Calves	300	0 - 400	0.2	60	Farm Freestall Barns
Heifers	1,100	400 - 800	0.6	660	Farm Freestall Barns
Heifers	1,000	800 - 1200	1.1	1,100	Farm Freestall Barns
Sub-total	2,400			1,820	
TOTAL	10,700			10,610	

Notes:

- (1) Animal equivalency factor based on WDNR NR 243
(2) AU - Animal units, calculated in accordance with WDNR NR 243

Table 5

Proposed Manure and Wastewater Quantity Summary

Ex. 6 Personal Privacy (PP) } LLC
sin

Livestock Type	Numbers	Average Weight (lb)	Liquid ⁽¹⁾ (gal/d)	Liquid ⁽²⁾ (gal/year)	Solids Separation ⁽³⁾ (gal/year)	Solids Separation ⁽⁴⁾ (tons/year)	Total Liquid to Storage (gal/year)	Solid (lb/d)	Solid (tons/yr)
Main Facility									
Milking Cows	4,400	1,300	26	40,953,000	3,685,770	15,112	37,267,230	--	--
Dry Cows	600	1,400	20	4,270,500	384,345	1,576	3,886,155	--	--
Heifers	100	800 - 1,200	16	565,750	50,918	209	514,833	--	--
Calves	1,200	0 - 400	--	--	--	--	--	13	2,847
Sub-total =	6,300			45,789,250	4,121,033	16,896	41,668,218		2,847
K Farm									
Beef Cattle	1,300	400-Mkt	--	--	--	--	--	92	21,827
Calves	700	0 - 400	--	--	--	--	--	13	1,661
Sub-total =	2,000			0	0	0	0		23,488
Ex. 6 Personal Privacy (PP) Farm									
Calves	300	0 - 400	--	--	--	--	--	13	712
Heifers	1,100	400 - 800	13	5,219,500	0	0	5,219,500	--	0
Heifers	1,000	800 - 1200	16	5,657,500	0	0	5,657,500	--	0
Sub-total =	2,400			10,877,000	0	0	10,877,000		712
Total =	10,700			56,666,250	4,121,033	16,896	52,545,218		27,047
Precipitation minus Evaporation ⁽⁵⁾ Manure Storage Structures							5,332,873		
Silage Leachate ⁽⁶⁾ Main Dairy Old Feed Storage							74,800		
Runoff from Feed Storage Area ⁽⁷⁾ Main Dairy Old Feed Storage							818,297		
Portion of Runoff & Silage Leachate from Feed Storage Area and Concrete Barnyards ⁽⁸⁾ Farm							78,850		
Runoff from Concrete Barnyards ⁽⁹⁾ K Farm							1,863,270		
Total Wastewater to be Comingled with Manure =							8,168,089		
Total Manure and Wastewater Volume =							60,713,307		
Useable Manure Storage Capacity =							30,325,461		
Total Manure Solids (tons) =							43,943		
Days of Storage =							182		
Silage Leachate ⁽¹⁰⁾ Farm							108,460		
Annual Runoff from Feed Storage Area and Concrete Barnyards ⁽¹¹⁾ Farm							2,640,569		
Silage Leachate ⁽¹²⁾ Main Dairy Feed Pad							407,660		
Runoff from Feed Pad ⁽¹³⁾ Main Dairy							7,269,618		
Precipitation minus Evaporation ⁽¹⁴⁾ Existing and Proposed Leachate Storage Structures							1,241,869		
Total Leachate and Precipitation Volume =							11,668,176		
Useable Leachate Pond Storage Capacity =							4,620,264		
Days of Storage =							145		

Notes:

- (1) Liquid Manure Estimate based on farm production records.
- (2) Bedding and other by-products not included.
- (3) Solids separation is calculated based on a manure solids content of 12% and separation efficiency of 75%.
- (4) One gallon of separated solids equals 0.0041 tons.
- (5) Based on direct precipitation less evaporation on manure storage pond surface areas using State-wide rainfall data.
- (6) Leachate volume based on 0.5 cubic feet per ton of stored feed for 20,000 tons of feed.
- (7) Based on Wisconsin USDA-NRCS Feed Storage Runoff Spreadsheet and CPS 629. Values derived from collection of 0.20 inches of first flush precipitation runoff and annual rainfall data using State-wide precipitation data.
- (8) Leachate volume based on 0.5 cubic feet per ton of stored feed for 29,000 tons of feed.
- (9) Based on direct precipitation on the concrete barnyard surface areas using State-wide rainfall data.
- (10) Based on the portion of runoff collected during the 25-year, 24-hour design storm that is above usable capacity in the existing leachate pond.
- (11) Based on Wisconsin USDA-NRCS Feed Storage Runoff Spreadsheet and CPS 629. Values derived from 100% collection of precipitation runoff collected annually from the feed storage area and adjacent concrete barnyard.
- (12) Leachate volume based on 0.5 cubic feet per ton of stored feed for 80,000 tons of existing feed + 26,000 tons proposed feed.
- (13) Based on direct precipitation on 8.19 acres of feed storage area using State-wide rainfall data.
- (14) Based on direct precipitation less evaporation on leachate storage pond surface areas using State-wide rainfall data.

Appendices

Appendix A

Completed Form 3400-25

Appendix A.1

Main Facility

Notice: Pursuant to ch. NR 243, Wis. Adm. Code and s. 283.53(3), Wis. Stats., this Wisconsin Pollutant Discharge Elimination System (WPDES) form is required by the Department of Natural Resources (DNR) to be submitted, along with Form 3400-025A and all other required application materials, by the owner or operator of a Concentrated Animal Feeding Operation (CAFO). The Department will not consider your application complete unless you complete and submit this application form. Penalties for failure to submit a completed application are established in ss. 283.89 and 283.91, Wis. Stats. [Section 283.91(4), Wis. Stats., provides that: Any person who knowingly makes any false statement, representation or certification in this application shall upon conviction be punished by a fine of not more than \$10,000 or by imprisonment for not more than 6 months or both.] Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's open records law [ss. 19.31-19.39, Wis. Stats.].

Form 3400-025 is being submitted for the purpose of the (check one):

- ☐ Preliminary application,
☐ Final application, or
☒ Reissuance application

This operation is (check the following that apply to your operation):

- ☐ a new facility to be constructed
☐ an existing facility expanding (check all that apply):
☐ increasing animal numbers, ☐ constructing, ☒ no planned changes
☒ an existing permittee for reissuance (check all that apply):
☒ increasing animal numbers, ☒ constructing, ☐ no planned changes

Read the attached instructions before filling out the contact information. Print or type the requested information, except for the signature.

Section I: Contact Information

Legal Name for Permit Issuance & Operator Contact Information

1. Legal name of the operation to which the permit will be issued or Legal Name of parent company (if different from name of operation)

Ex. 6 Personal Privacy (PP) LLC

2. Name of Operator or Manager

Ex. 6 Personal Privacy (PP)

Title

Member

3. Mailing Address-Street, Route or Box

Ex. 6 Personal Privacy (PP)

City/Town

Ex. 6 Personal Privacy (PP)

State

WI

ZIP Code

Ex. 6 Personal Privacy (PP)

4. Phone Number (inc. area code) Cell Phone

Fax Number

E-mail Address

Ex. 6 Personal Privacy (PP)

Parent Company Owner Information (if applicable)

1. Name of Parent Company/Owner (if different from operator above)

2. Contact Person

Title

3. Mailing Address-Street, Route or Box

City/Town

State

ZIP Code

4. Phone Number (inc. area code) Cell Phone

Fax Number

E-mail Address

Crop Consultant

1. Name of Crop Consultant

Nick Guilette

Company/Title

AgSource Cooperative Services

2. Mailing Address-Street, Route or Box

106 North Cecil Street

City/Town

Bonduel

State

WI

ZIP Code

54107

3. Phone Number (inc. area code)

715-758-2178

Cell Phone

920-304-6293

Fax Number

715-758-2620

E-mail Address

nguilette@agsource.com

Design Engineer

1. Name of Design Engineer

Douglas M. Gatrell

Company/Title

GHD Services, Inc.

2. Mailing Address-Street, Route or Box

1400 Lombardi Avenue, Ste 105

City/Town

Green Bay

State

WI

ZIP Code

54304

3. Phone Number (inc. area code)

920-490-1663

Cell Phone

734-645-4851

Fax Number

920-490-1668

E-mail Address

douglas.gatrell@ghd.com

Certification & Signature (person attesting to the accuracy and completeness of WPDES application)

I certify that I am familiar with the information contained in this application and that to the best of my knowledge and belief such information is true, complete and accurate. This application must be signed by an individual who is either an owner of the operation identified above or a corporate officer if the operation is incorporated.

Title

Member

Date Signed

6/30/0

Ex. 6 Personal Privacy (PP)

employment programs, services, and functions under an Affirmative Action Plan. If you have Washington, D.C., 20240. This publication is available in alternative format (large print, Braille, etc.) upon request.

Section II: Site Information (Must be completed for each site. Prior to completing, make copies as needed.)

This operation uses this site for (check all that apply):

- ☒ Animal housing
☒ Manure storage
☒ Feed storage

The following item(s) are attached to this Site Description (check all that apply):

- ☒ Current AU worksheet
☒ Projected AU worksheet
☒ Site Map

INSTRUCTIONS: Read the attached instructions before entering the site description information. A separate Site Information section must be filled out for the main site and any other site(s) which are owned or operated by your farm for the purpose of housing animals, storing manure, or storing feed associated with your operation. Remember a site map and Current/Projected AU Calculation Worksheet(s) must also be included with each Site Information section.

Name & Physical Location of Operation

1. Name of Farm/Operation

Ex. 6 Personal Privacy (PP) Main Facility

2. Location Address

Ex. 6 Personal Privacy (PP)

City

Ex. 6 Personal Privacy (PP)

State

WI

ZIP Code

Ex. 6 Personal Privacy (PP)

3. County

Kewaunee

☐ City

☒ Town

☐ Village of

Township

Range

Section

1/4

1/4

1/4

1/4

Ex. 6 Personal Privacy (PP)

Current/Projected Animal Units & Expansion Dates

1. Use the Current AU Calculations Worksheet (Form 3400-025A) to calculate the total number of animal units presently held in confinement or feeding facilities for more than 45 days in a 12 month period at this site. Attach the corresponding Current AU Calculations Worksheet to this Site Description section.

☐ Check here if there are no animals housed at this site for more than 45 days in a 12 month period.

2. Use the Projected AU Calculations Worksheet (Form 3400-025A) to determine the proposed number of animal units that will be held in confinement or feeding facilities for more than 45 days in a 12 month period at this site within the next five years. Attach the corresponding Projected AU Calculations Worksheet to this Site Description section.

☐ Check here if there are no proposed increases in animal numbers at this site within the next five years.

3. List the date of proposed expansion(s) (i.e. increase in animals, constructing new structures, modifying existing structures) at this site within the next five years (MM/YY). These dates should correlate with the information provided for the proposed structures and systems listed in the tables below and the projected animal numbers provided on the Projected AU Calculations Worksheet:

Expansion 1: 08/2018

Expansion 2:

Expansion 3:

Expansion 4:

Expansion 5:

☐ Check here if no expansion is planned at this site within the next 5 years.

☒ Check here if your expansion(s) will disturb one (1) acre or more of soil.

Types of Manure Storage/Composting Facilities/Wastewater Storage/Treatment Facilities

List all **existing** and **proposed** manure storage, composting facilities, process wastewater storage, and treatment facilities located at this site. These may include earthen, earthen with a concrete floor, synthetically lined, concrete, steel above ground tank, below ground storage tank, anaerobic lagoon, roofed storage shed, under-floor storage, stacking slab (clay or concrete), unconfined manure stack, etc. Identify the type of waste(s) (e.g. solid manure, liquid manure, feed storage runoff or lot runoff, process wastewater, septic waste, digester, etc.) that is stored and the date the storage was built or the proposed date of construction. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the structure. If no documentation exists, indicate none in the space provided. All the existing and proposed structures must be identified on the site map associated with this description.

	Existing or Proposed?	Storage Type	Types of Waste	Year Built	Storage Facility Design Documentation
Waste Containing Facility 1	Existing	WSP #1 - 1,544,380 gal usable	liquid manure, WW	2002	Post Construction Report by Kewaunee Co LWCD
Waste Containing Facility 2	Existing	WSP #2 - 5,692,377 gal usable	liquid manure, WW	2006	Post Construction Report by Kewaunee Co LWCD
Waste Containing Facility 3	Existing	WSP #3 - 8,534,645 gal usable	liquid manure, WW	2011	Post Construction Report by CRA
Waste Containing Facility 4	Proposed	Leachate Management Pond	silage leachate/precipitation runoff		Plans & Specs by GHD
Waste Containing Facility 5					
Waste Containing Facility 6					
Waste Containing Facility 7					

Types of Outside Animal Lots/Confinement Areas

List all **existing** and **proposed** outside animal lots/confinement areas located at this site. These may include outdoor barn yard or feedlot, housed under roof or partially housed under roof, or outdoor vegetated area. This does not need to include total confinement barns. Identify the number, type and size of animals (e.g. 50/heifers/800lbs) and whether or not there is a runoff control system associated with the lot. Types of runoff control systems may include vegetated treatment area, collection tank, roof, etc. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the area. If no documentation exists, indicate none in the space provided. All the existing and proposed outside animal lots and confinement areas must be identified on the site map associated with this description.

	Existing or Proposed?	Outdoor Lot/Confinement Area Type	Number/Type/Size of Animals	Runoff Control Y/N	Confinement Area Design Documentation
Confinement Area 1	NA				
Confinement Area 2					
Confinement Area 3					
Confinement Area 4					
Confinement Area 5					

Types of Feed Storage Areas

List all **existing** and **proposed** feed storage areas located at this site. These may include upright silos, earthen/concrete bunkers, etc. Identify the type and amount of feed stored (e.g. corn silage/100 tons). Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the area. If no documentation exists, indicate none in the space provided. All the existing and proposed feed storage areas must be identified on the site map associated with this description. Check the box if bags are used for feed storage.

☐ Check here if bags are used for feed storage.

	Existing or Proposed?	Feed Storage Area Type	Type & Amount of Feed Stored	Runoff Control Y/N	Feed Storage Area Design Documentation
Feed Storage Area 1	Existing	Old Feed Pad- 165,964 ft2 concrete feed pad	20,000 tons	Y	Post Construction Report by CRA 02/2011
Feed Storage Area 2	Existing	New Feed Pad- 260,917 ft2 acres concrete feed pad	100,000 tons	Y	Post construction by GHD 10/2014
Feed Storage Area 3	Proposed	95,625 ft2 concrete feed pad	26,000 tons	Y	Plans & Specs by GHD
Feed Storage Area 4					
Feed Storage Area 5					

Types of Runoff Control Systems

List all **existing** and **proposed** runoff control systems located at this site. These may include vegetated treatment area, collection tank, roof, etc. Identify the associated outdoor lot, confinement area, or feed storage. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the system. If no documentation exists, indicate none in the space provided. All the existing and proposed runoff control systems must be identified on the site map associated with this description.

	Existing or Proposed?	Type of Runoff Control System	Associated Outdoor Lot/Feed Storage	Runoff Control System Design Documentation
Runoff Control System 1	Existing	Collection Tank/VTA	Old Feed Pad	Post Construction by CRA- 02/2011
Runoff Control System 2	Existing	Leachate Management Pond	New Feed Pad+Expansion	Plans & Specs by GHD
Runoff Control System 3				
Runoff Control System 4				
Runoff Control System 5				

Appendix A.2

K Farm

Section II: Site Information (Must be completed for each site. Prior to completing, make copies as needed.)

This operation uses this site for (check all that apply):

- ☒ Animal housing
☒ Manure storage
☐ Feed storage

The following item(s) are attached to this Site Description (check all that apply):

- ☒ Current AU worksheet
☒ Projected AU worksheet
☒ Site Map

INSTRUCTIONS: Read the attached instructions before entering the site description information. A separate Site Information section must be filled out for the main site and any other site(s) which are owned or operated by your farm for the purpose of housing animals, storing manure, or storing feed associated with your operation. Remember a site map and Current/Projected AU Calculation Worksheet(s) must also be included with each Site Information section.

Name & Physical Location of Operation

1. Name of Farm/Operation

Ex. 6 Personal Privacy (PP) C - K Farm

2. Location Address

Ex. 6 Personal Privacy (PP)

City

Ex. 6 Personal Privacy (PP)

State

WI

ZIP Code

Ex. 6 Personal Privacy (PP)

3. County

☐ City

☒ Town

☐ Village of

Township

Range

Section

1/4

1/4 1/4

Kewaunee

Ex. 6 Personal Privacy (PP)

Ex. 6 Personal Privacy (PP)

Current/Projected Animal Units & Expansion Dates

1. Use the Current AU Calculations Worksheet (Form 3400-025A) to calculate the total number of animal units presently held in confinement or feeding facilities for more than 45 days in a 12 month period at this site. Attach the corresponding Current AU Calculations Worksheet to this Site Description section.

☐ Check here if there are no animals housed at this site for more than 45 days in a 12 month period.

2. Use the Projected AU Calculations Worksheet (Form 3400-025A) to determine the proposed number of animal units that will be held in confinement or feeding facilities for more than 45 days in a 12 month period at this site within the next five years. Attach the corresponding Projected AU Calculations Worksheet to this Site Description section.

☐ Check here if there are no proposed increases in animal numbers at this site within the next five years.

3. List the date of proposed expansion(s) (i.e. increase in animals, constructing new structures, modifying existing structures) at this site within the next five years (MM/YY). These dates should correlate with the information provided for the proposed structures and systems listed in the tables below and the projected animal numbers provided on the Projected AU Calculations Worksheet:

Expansion 1: _____ Expansion 2: _____ Expansion 3: _____ Expansion 4: _____ Expansion 5: _____

☐ Check here if no expansion is planned at this site within the next 5 years.

☐ Check here if your expansion(s) will disturb one (1) acre or more of soil.

Types of Manure Storage/Composting Facilities/Wastewater Storage/Treatment Facilities

List all **existing** and **proposed** manure storage, composting facilities, process wastewater storage, and treatment facilities located at this site. These may include earthen, earthen with a concrete floor, synthetically lined, concrete, steel above ground tank, below ground storage tank, anaerobic lagoon, roofed storage shed, under-floor storage, stacking slab (clay or concrete), unconfined manure stack, etc. Identify the type of waste(s) (e.g. solid manure, liquid manure, feed storage runoff or lot runoff, process wastewater, septic waste, digester, etc.) that is stored and the date the storage was built or the proposed date of construction. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the structure. If no documentation exists, indicate none in the space provided. All the existing and proposed structures must be identified on the site map associated with this description.

	Existing or Proposed?	Storage Type	Types of Waste	Year Built	Storage Facility Design Documentation
Waste Containing Facility 1	Existing	Runoff Collection Pond- 1,085,871 gallons usable	Barnyard Runoff	2013	As-Built Report by GHD, 08/2013
Waste Containing Facility 2					
Waste Containing Facility 3					
Waste Containing Facility 4					
Waste Containing Facility 5					
Waste Containing Facility 6					
Waste Containing Facility 7					

Types of Outside Animal Lots/Confinement Areas

List all **existing** and **proposed** outside animal lots/confinement areas located at this site. These may include outdoor barn yard or feedlot, housed under roof or partially housed under roof, or outdoor vegetated area. This does not need to include total confinement barns. Identify the number, type and size of animals (e.g. 50/heifers/800lbs) and whether or not there is a runoff control system associated with the lot. Types of runoff control systems may include vegetated treatment area, collection tank, roof, etc. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the area. If no documentation exists, indicate none in the space provided. All the existing and proposed outside animal lots and confinement areas must be identified on the site map associated with this description.

	Existing or Proposed?	Outdoor Lot/Confinement Area Type	Number/Type/Size of Animals	Runoff Control Y/N	Confinement Area Design Documentation
Confinement Area 1	Existing	Concrete Barnyard- 74,738 ft2	800 steers (700#-Market)	N	Engineering Evaluation by CRA- Oct 2010
Confinement Area 2					
Confinement Area 3					
Confinement Area 4					
Confinement Area 5					

Types of Feed Storage Areas

List all **existing** and **proposed** feed storage areas located at this site. These may include upright silos, earthen/concrete bunkers, etc. Identify the type and amount of feed stored (e.g. corn silage/100 tons). Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the area. If no documentation exists, indicate none in the space provided. All the existing and proposed feed storage areas must be identified on the site map associated with this description. Check the box if bags are used for feed storage.

☐ Check here if bags are used for feed storage.

	Existing or Proposed?	Feed Storage Area Type	Type & Amount of Feed Stored	Runoff Control Y/N	Feed Storage Area Design Documentation
Feed Storage Area 1	N/A				
Feed Storage Area 2					
Feed Storage Area 3					
Feed Storage Area 4					
Feed Storage Area 5					

Types of Runoff Control Systems

List all **existing** and **proposed** runoff control systems located at this site. These may include vegetated treatment area, collection tank, roof, etc. Identify the associated outdoor lot, confinement area, or feed storage. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the system. If no documentation exists, indicate none in the space provided. All the existing and proposed runoff control systems must be identified on the site map associated with this description.

	Existing or Proposed?	Type of Runoff Control System	Associated Outdoor Lot/Feed Storage	Runoff Control System Design Documentation
Runoff Control System 1	Existing	Runoff Collection Pond	Concrete Lot	Post Construction Report by GHD, 08/2013
Runoff Control System 2				
Runoff Control System 3				
Runoff Control System 4				
Runoff Control System 5				

Appendix A.3

Ex. 6 Personal Privacy (PP) Farm

Section II: Site Information (Must be completed for each site. Prior to completing, make copies as needed.)

This operation uses this site for (check all that apply):

- ☒ Animal housing
☒ Manure storage
☒ Feed storage

The following item(s) are attached to this Site Description (check all that apply):

- ☒ Current AU worksheet
☒ Projected AU worksheet
☒ Site Map

INSTRUCTIONS: Read the attached instructions before entering the site description information. A separate Site Information section must be filled out for the main site and any other site(s) which are owned or operated by your farm for the purpose of housing animals, storing manure, or storing feed associated with your operation. Remember a site map and Current/Projected AU Calculation Worksheet(s) must also be included with each Site Information section.

Name & Physical Location of Operation

Ex. 6 Personal Privacy (PP)

2. Location Address

Ex. 6 Personal Privacy (PP)

City

Ex. 6 Personal Privacy (PP)

State

WI

ZIP Code

Ex. 6 Personal Privacy (PP)

3. County

Kewaunee

☐ City

☒ Town

☐ Village of

Township

Range

☒ Section

1/4

1/4

1/4

Ex. 6 Personal Privacy (PP)

Current/Projected Animal Units & Expansion Dates

1. Use the Current AU Calculations Worksheet (Form 3400-025A) to calculate the total number of animal units presently held in confinement or feeding facilities for more than 45 days in a 12 month period at this site. Attach the corresponding Current AU Calculations Worksheet to this Site Description section.

☐ Check here if there are no animals housed at this site for more than 45 days in a 12 month period.

2. Use the Projected AU Calculations Worksheet (Form 3400-025A) to determine the proposed number of animal units that will be held in confinement or feeding facilities for more than 45 days in a 12 month period at this site within the next five years. Attach the corresponding Projected AU Calculations Worksheet to this Site Description section.

☐ Check here if there are no proposed increases in animal numbers at this site within the next five years.

3. List the date of proposed expansion(s) (i.e. increase in animals, constructing new structures, modifying existing structures) at this site within the next five years (MM/YY). These dates should correlate with the information provided for the proposed structures and systems listed in the tables below and the projected animal numbers provided on the Projected AU Calculations Worksheet:

Expansion 1: Expansion 2: Expansion 3: Expansion 4: Expansion 5:

☐ Check here if no expansion is planned at this site within the next 5 years.

☐ Check here if your expansion(s) will disturb one (1) acre or more of soil.

Types of Manure Storage/Composting Facilities/Wastewater Storage/Treatment Facilities

List all **existing** and **proposed** manure storage, composting facilities, process wastewater storage, and treatment facilities located at this site. These may include earthen, earthen with a concrete floor, synthetically lined, concrete, steel above ground tank, below ground storage tank, anaerobic lagoon, roofed storage shed, under-floor storage, stacking slab (clay or concrete), unconfined manure stack, etc. Identify the type of waste(s) (e.g. solid manure, liquid manure, feed storage runoff or lot runoff, process wastewater, septic waste, digester, etc.) that is stored and the date the storage was built or the proposed date of construction. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the structure. If no documentation exists, indicate none in the space provided. All the existing and proposed structures must be identified on the site map associated with this description.

	Existing or Proposed?	Storage Type	Types of Waste	Year Built	Storage Facility Design Documentation
Waste Containing Facility 1	WSP #1	Clay Lined - 5.8 mil gal usable	Manure		As-built by Kewaunee County LWCD
Waste Containing Facility 2	WSP #2	Clay Lined- 5.1 mil gal usable	Manure	2007	Engineering Eval by Roach & Assoc - 2012
Waste Containing Facility 3					
Waste Containing Facility 4					
Waste Containing Facility 5					
Waste Containing Facility 6					
Waste Containing Facility 7					

Types of Outside Animal Lots/Confinement Areas

List all **existing** and **proposed** outside animal lots/confinement areas located at this site. These may include outdoor barn yard or feedlot, housed under roof or partially housed under roof, or outdoor vegetated area. This does not need to include total confinement barns. Identify the number, type and size of animals (e.g. 50/heifers/800lbs) and whether or not there is a runoff control system associated with the lot. Types of runoff control systems may include vegetated treatment area, collection tank, roof, etc. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the area. If no documentation exists, indicate none in the space provided. All the existing and proposed outside animal lots and confinement areas must be identified on the site map associated with this description.

	Existing or Proposed?	Outdoor Lot/Confinement Area Type	Number/Type/Size of Animals	Runoff Control Y/N	Confinement Area Design Documentation
Confinement Area 1	Existing	West Concrete Barnyard - 8,430 ft2	none	N	Lot use to be abandoned
Confinement Area 2	Existing	East Exercise Lot - 4,117 ft2	none	N	Lot only used to hold animals during cleaning
Confinement Area 3					
Confinement Area 4					
Confinement Area 5					

Types of Feed Storage Areas

List all **existing** and **proposed** feed storage areas located at this site. These may include upright silos, earthen/concrete bunkers, etc. Identify the type and amount of feed stored (e.g. corn silage/100 tons). Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the area. If no documentation exists, indicate none in the space provided. All the existing and proposed feed storage areas must be identified on the site map associated with this description. Check the box if bags are used for feed storage.

☐ Check here if bags are used for feed storage.

	Existing or Proposed?	Feed Storage Area Type	Type & Amount of Feed Stored	Runoff Control Y/N	Feed Storage Area Design Documentation
Feed Storage Area 1	Existing	Concrete Bunkers - 2.87 acres	29,000 tons of Corn Silage/Haylage	Y	As-built by Roach & Associates, 2018
Feed Storage Area 2					
Feed Storage Area 3					
Feed Storage Area 4					
Feed Storage Area 5					

Types of Runoff Control Systems

List all **existing** and **proposed** runoff control systems located at this site. These may include vegetated treatment area, collection tank, roof, etc. Identify the associated outdoor lot, confinement area, or feed storage. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the system. If no documentation exists, indicate none in the space provided. All the existing and proposed runoff control systems must be identified on the site map associated with this description.

	Existing or Proposed?	Type of Runoff Control System	Associated Outdoor Lot/Feed Storage	Runoff Control System Design Documentation
Runoff Control System 1	Existing	Gravity drainage to leachate basin-100% collection	Feed Storage Area	As-built by Roach & Associates, 2018
Runoff Control System 2	Existing	Gravity drainage to leachate basin-100% collection	East Exercise Lot	As-Built by Roach & Associates, 2018
Runoff Control System 3				
Runoff Control System 4				
Runoff Control System 5				

Appendix A.4

S Farm

Section II: Site Information (Must be completed for each site. Prior to completing, make copies as needed.)

This operation uses this site for (check all that apply):

- ☒ Animal housing
☒ Manure storage
☒ Feed storage

The following item(s) are attached to this Site Description (check all that apply):

- ☒ Current AU worksheet
☒ Projected AU worksheet
☒ Site Map

INSTRUCTIONS: Read the attached instructions before entering the site description information. A separate Site Information section must be filled out for the main site and any other site(s) which are owned or operated by your farm for the purpose of housing animals, storing manure, or storing feed associated with your operation. Remember a site map and Current/Projected AU Calculation Worksheet(s) must also be included with each Site Information section.

Name & Physical Location of Operation

1. Name of Farm/Operation Ex. 6 Personal Privacy (PP) LLC - S Farm			
2. Location Address Ex. 6 Personal Privacy (PP)		City Ex. 6 Personal Privacy (PP)	State WI
3. County Kewaunee	<input type="checkbox"/> City <input checked="" type="checkbox"/> Town <input type="checkbox"/> Village of Ex. 6 Personal Privacy (PP)	Towns Ship Range Section Ex. 6 Personal Privacy (PP)	

Current/Projected Animal Units & Expansion Dates

- Use the Current AU Calculations Worksheet (Form 3400-025A) to calculate the total number of animal units presently held in confinement or feeding facilities for more than 45 days in a 12 month period at this site. Attach the corresponding Current AU Calculations Worksheet to this Site Description section.
☒ Check here if there are no animals housed at this site for more than 45 days in a 12 month period.
- Use the Projected AU Calculations Worksheet (Form 3400-025A) to determine the proposed number of animal units that will be held in confinement or feeding facilities for more than 45 days in a 12 month period at this site within the next five years. Attach the corresponding Projected AU Calculations Worksheet to this Site Description section.
☐ Check here if there are no proposed increases in animal numbers at this site within the next five years.
- List the date of proposed expansion(s) (i.e. increase in animals, constructing new structures, modifying existing structures) at this site within the next five years (MM/YY). These dates should correlate with the information provided for the proposed structures and systems listed in the tables below and the projected animal numbers provided on the Projected AU Calculations Worksheet:

Expansion 1: _____ Expansion 2: _____ Expansion 3: _____ Expansion 4: _____ Expansion 5: _____

☒ Check here if no expansion is planned at this site within the next 5 years.

☐ Check here if your expansion(s) will disturb one (1) acre or more of soil.

Types of Manure Storage/Composting Facilities/Wastewater Storage/Treatment Facilities

List all **existing** and **proposed** manure storage, composting facilities, process wastewater storage, and treatment facilities located at this site. These may include earthen, earthen with a concrete floor, synthetically lined, concrete, steel above ground tank, below ground storage tank, anaerobic lagoon, roofed storage shed, under-floor storage, stacking slab (clay or concrete), unconfined manure stack, etc. Identify the type of waste(s) (e.g. solid manure, liquid manure, feed storage runoff or lot runoff, process wastewater, septic waste, digester, etc.) that is stored and the date the storage was built or the proposed date of construction. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the structure. If no documentation exists, indicate none in the space provided. All the existing and proposed structures must be identified on the site map associated with this description.

	Existing or Proposed?	Storage Type	Types of Waste	Year Built	Storage Facility Design Documentation
Waste Containing Facility 1	WSP #1	Clay Lined/Concrete Bottom 85 x 85 x 4.3 (118,182 gallons usable)	Manure	1981	Engineering Evaluation by GHD April 5, 2016
Waste Containing Facility 2	WSP #2	Clay Lined- 210 x 105 x 15 (1,215,478 gallons usable)	Manure	2004	Engineering Evaluation by GHD April 5, 2016
Waste Containing Facility 3					
Waste Containing Facility 4					
Waste Containing Facility 5					
Waste Containing Facility 6					
Waste Containing Facility 7					

Types of Outside Animal Lots/Confinement Areas

List all **existing** and **proposed** outside animal lots/confinement areas located at this site. These may include outdoor barn yard or feedlot, housed under roof or partially housed under roof, or outdoor vegetated area. This does not need to include total confinement barns. Identify the number, type and size of animals (e.g. 50/heifers/800lbs) and whether or not there is a runoff control system associated with the lot. Types of runoff control systems may include vegetated treatment area, collection tank, roof, etc. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the area. If no documentation exists, indicate none in the space provided. All the existing and proposed outside animal lots and confinement areas must be identified on the site map associated with this description.

	Existing or Proposed?	Outdoor Lot/Confinement Area Type	Number/Type/Size of Animals	Runoff Control Y/N	Confinement Area Design Documentation
Confinement Area 1	n/a				
Confinement Area 2					
Confinement Area 3					
Confinement Area 4					
Confinement Area 5					

Types of Feed Storage Areas

List all **existing** and **proposed** feed storage areas located at this site. These may include upright silos, earthen/concrete bunkers, etc. Identify the type and amount of feed stored (e.g. corn silage/100 tons). Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the area. If no documentation exists, indicate none in the space provided. All the existing and proposed feed storage areas must be identified on the site map associated with this description. Check the box if bags are used for feed storage.

☐ Check here if bags are used for feed storage.

	Existing or Proposed?	Feed Storage Area Type	Type & Amount of Feed Stored	Runoff Control Y/N	Feed Storage Area Design Documentation
Feed Storage Area 1	n/a				
Feed Storage Area 2					
Feed Storage Area 3					
Feed Storage Area 4					
Feed Storage Area 5					

Types of Runoff Control Systems

List all **existing** and **proposed** runoff control systems located at this site. These may include vegetated treatment area, collection tank, roof, etc. Identify the associated outdoor lot, confinement area, or feed storage. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the system. If no documentation exists, indicate none in the space provided. All the existing and proposed runoff control systems must be identified on the site map associated with this description.

	Existing or Proposed?	Type of Runoff Control System	Associated Outdoor Lot/Feed Storage	Runoff Control System Design Documentation
Runoff Control System 1	n/a			
Runoff Control System 2				
Runoff Control System 3				
Runoff Control System 4				
Runoff Control System 5				

Appendix A.5

54 Farm

Section II: Site Information (Must be completed for each site. Prior to completing, make copies as needed.)

This operation uses this site for (check all that apply):

- ☒ Animal housing
☒ Manure storage
☒ Feed storage

The following item(s) are attached to this Site Description (check all that apply):

- ☒ Current AU worksheet
☒ Projected AU worksheet
☒ Site Map

INSTRUCTIONS: Read the attached instructions before entering the site description information. A separate Site Information section must be filled out for the main site and any other site(s) which are owned or operated by your farm for the purpose of housing animals, storing manure, or storing feed associated with your operation. Remember a site map and Current/Projected AU Calculation Worksheet(s) must also be included with each Site Information section.

Name & Physical Location of Operation

1. **Ex. 6 Personal Privacy (PP)** LC - 54 Farm

2. **Ex. 6 Personal Privacy (PP)** City **Ex. 6 Personal Privacy (PP)** State **WI** ZIP Code **Ex. 6 Personal Privacy (PP)**

3. County **Kewaunee** ☐ City ☒ Town ☐ Village of **Ex. 6 Personal Privacy (PP)** Township **Ex. 6 Personal Privacy (PP)** Range **Ex. 6 Personal Privacy (PP)** Section **Ex. 6 Personal Privacy (PP)**

Current/Projected Animal Units & Expansion Dates

1. Use the Current AU Calculations Worksheet (Form 3400-025A) to calculate the total number of animal units presently held in confinement or feeding facilities for more than 45 days in a 12 month period at this site. Attach the corresponding Current AU Calculations Worksheet to this Site Description section.
- ☒ Check here if there are no animals housed at this site for more than 45 days in a 12 month period.
2. Use the Projected AU Calculations Worksheet (Form 3400-025A) to determine the proposed number of animal units that will be held in confinement or feeding facilities for more than 45 days in a 12 month period at this site within the next five years. Attach the corresponding Projected AU Calculations Worksheet to this Site Description section.
- ☐ Check here if there are no proposed increases in animal numbers at this site within the next five years.
3. List the date of proposed expansion(s) (i.e. increase in animals, constructing new structures, modifying existing structures) at this site within the next five years (MM/YY). These dates should correlate with the information provided for the proposed structures and systems listed in the tables below and the projected animal numbers provided on the Projected AU Calculations Worksheet:

Expansion 1: Expansion 2: Expansion 3: Expansion 4: Expansion 5:

- ☒ Check here if no expansion is planned at this site within the next 5 years.
- ☐ Check here if your expansion(s) will disturb one (1) acre or more of soil.

Types of Manure Storage/Composting Facilities/Wastewater Storage/Treatment Facilities

List all existing and proposed manure storage, composting facilities, process wastewater storage, and treatment facilities located at this site. These may include earthen, earthen with a concrete floor, synthetically lined, concrete, steel above ground tank, below ground storage tank, anaerobic lagoon, roofed storage shed, under-floor storage, stacking slab (clay or concrete), unconfined manure stack, etc. Identify the type of waste(s) (e.g. solid manure, liquid manure, feed storage runoff or lot runoff, process wastewater, septic waste, digester, etc.) that is stored and the date the storage was built or the proposed date of construction. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the structure. If no documentation exists, indicate none in the space provided. All the existing and proposed structures must be identified on the site map associated with this description.

	Existing or Proposed?	Storage Type	Types of Waste	Year Built	Storage Facility Design Documentation
Waste Containing Facility 1	WST	Slurrystore Tank-101 diameter by 20 ft (1,117,169 gallons usable)	Manure		Engineering Evaluation pending by Central States TankST.
Waste Containing Facility 2					
Waste Containing Facility 3					
Waste Containing Facility 4					
Waste Containing Facility 5					
Waste Containing Facility 6					
Waste Containing Facility 7					

Types of Outside Animal Lots/Confinement Areas

List all **existing** and **proposed** outside animal lots/confinement areas located at this site. These may include outdoor barn yard or feedlot, housed under roof or partially housed under roof, or outdoor vegetated area. This does not need to include total confinement barns. Identify the number, type and size of animals (e.g. 50/heifers/800lbs) and whether or not there is a runoff control system associated with the lot. Types of runoff control systems may include vegetated treatment area, collection tank, roof, etc. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the area. If no documentation exists, indicate none in the space provided. All the existing and proposed outside animal lots and confinement areas must be identified on the site map associated with this description.

	Existing or Proposed?	Outdoor Lot/Confinement Area Type	Number/Type/Size of Animals	Runoff Control Y/N	Confinement Area Design Documentation
Confinement Area 1	n/a				
Confinement Area 2					
Confinement Area 3					
Confinement Area 4					
Confinement Area 5					

Types of Feed Storage Areas

List all **existing** and **proposed** feed storage areas located at this site. These may include upright silos, earthen/concrete bunkers, etc. Identify the type and amount of feed stored (e.g. corn silage/100 tons). Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the area. If no documentation exists, indicate none in the space provided. All the existing and proposed feed storage areas must be identified on the site map associated with this description. Check the box if bags are used for feed storage.

☐ Check here if bags are used for feed storage.

	Existing or Proposed?	Feed Storage Area Type	Type & Amount of Feed Stored	Runoff Control Y/N	Feed Storage Area Design Documentation
Feed Storage Area 1	n/a				
Feed Storage Area 2					
Feed Storage Area 3					
Feed Storage Area 4					
Feed Storage Area 5					

Types of Runoff Control Systems

List all **existing** and **proposed** runoff control systems located at this site. These may include vegetated treatment area, collection tank, roof, etc. Identify the associated outdoor lot, confinement area, or feed storage. Specify the type of design documentation such as plans and specifications, post construction documentation, and/or an engineering evaluation you may have of the system. If no documentation exists, indicate none in the space provided. All the existing and proposed runoff control systems must be identified on the site map associated with this description.

	Existing or Proposed?	Type of Runoff Control System	Associated Outdoor Lot/Feed Storage	Runoff Control System Design Documentation
Runoff Control System 1	n/a			
Runoff Control System 2				
Runoff Control System 3				
Runoff Control System 4				
Runoff Control System 5				

Appendix B
Completed Animal Unit Worksheets
(Form 3400-025A)

Appendix B.1

Main Facility

Animal Unit Calculation Worksheet
Form 3400-025A (R 3/2012)

The Current Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

Current Animal Unit Calculation Numbers							
Name of Site: Ex. 6 Personal Privacy (PP) LLC - Main Facility							
Animal Type	I. Mixed Animal Units			II. Non-mixed Animal Units			
	b. Equiv. factor	c. Current Number	d. No. of AUs	e. Equiv. factor	f. Current Number	g. No. of AUs	
<i>Example - Broilers (non-liquid manure):</i>	<i>0.005 x</i>	<i>150,000</i>	<i>= 750</i>	<i>0.008 x</i>	<i>150,000</i>	<i>= 1200</i>	
Dairy/Beef Calves (under 400 lbs)	0.20 x	1326	= 265.2	<i>Fed numbers in this column comply with 40 CFR s. 122.23</i>			
Dairy Cattle	Milking & Dry Cows	1.40 x	4350	= 6090	1.43 x	4350	= 6220.5
	Heifers (800 lbs to 1200 lbs)	1.10 x	75	= 82.5			
	Heifers (400 lbs to 800 lbs)	0.60 x	13	= 7.8	1.00 x	88	= 88
Beef	Steers or Cows (400 lbs to market)	1.00 x		=			
	Bulls (each)	1.40 x		=	1.00 x		=
Veal Calves		0.50 x		=	1.00 x		=
Swine	Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
	Pigs (55 lbs to market)	0.40 x		=			
	Sows (each)	0.40 x		=			
	Boars (each)	0.50 x		=	0.40 x		=
Chickens	Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
	Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
	Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)		0.018 x		=	0.018 x		=
Sheep (each)		0.1 x		=	0.1 x		=
Horses (each)		2 x		=	2 x		=
Total Animal Units:		Total Mixed Animal Units = 6445.5 (add all rows above)			Total Non-Mixed Animal Units = 6220.5 (Enter the single highest number from any row above; DO NOT add the totals)		

☐ Check here if there are no proposed increases in animal numbers at this site within the next five years.

Animal Unit Calculation Worksheet
Form 3400-025A (R 3/2012)

The Projected Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

Projected Animal Unit Calculation Numbers

Name of Site: **Ex. 6 Personal Privacy (PP) LLC - Main Facility**

Animal Type		I. Mixed Animal Units			II. Non-mixed Animal Units		
		b. Equiv. factor	c. Projected Number	d. No. of AUs	e. Equiv. factor	f. Projected Number	g. No. of AUs
<i>Example - Broilers (non-liquid manure):</i>		<i>0.005 x</i>	<i>150,000</i>	<i>= 750</i>	<i>0.008 x</i>	<i>150,000</i>	<i>= 1200</i>
Dairy/Beef Calves (under 400 lbs)		0.20 x	1200	= 240	<i>Fed numbers in this column comply with 40 CFR s. 122.23</i>		
Dairy Cattle	Milking & Dry Cows	1.40 x	5000	= 7000	1.43 x	5000	= 7150
	Heifers (800 lbs to 1200 lbs)	1.10 x	100	= 110			
	Heifers (400 lbs to 800 lbs)	0.60 x		=	1.00 x	100	= 100
Beef	Steers or Cows (400 lbs to market)	1.00 x		=			
	Bulls (each)	1.40 x		=	1.00 x		=
Veal Calves		0.50 x		=	1.00 x		=
Swine	Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
	Pigs (55 lbs to market)	0.40 x		=			
	Sows (each)	0.40 x		=			
	Boars (each)	0.50 x		=	0.40 x		=
Chickens	Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
	Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
	Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)		0.018 x		=	0.018 x		=
Sheep (each)		0.1 x		=	0.1 x		=
Horses (each)		2 x		=	2 x		=
Total Animal Units:		Total Mixed Animal Units = 7350 (add all rows above)			Total Non-Mixed Animal Units = 7150 (Enter the single highest number from any row above; DO NOT add the totals)		

Date of Proposed Expansion (MM/YY): 08/2018

Appendix B.2

K Farm

Animal Unit Calculation Worksheet
Form 3400-025A (R 3/2012)

The Current Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

Current Animal Unit Calculation Numbers						
Name of Site:		Ex. 6 Personal Privacy (PP) LC - K Farm				
Animal Type	I. Mixed Animal Units			II. Non-mixed Animal Units		
	b. Equiv. factor	c. Current Number	d. No. of AUs	e. Equiv. factor	f. Current Number	g. No. of AUs
Example - Broilers (non-liquid manure):	0.005 x	150,000	= 750	0.008 x	150,000	= 1200
Dairy/Beef Calves (under 400 lbs)	0.20 x	311	= 62.2	Fed numbers in this column comply with 40 CFR s. 122.23		
Dairy Cattle	Milking & Dry Cows	1.40 x	=	1.43 x		=
	Heifers (800 lbs to 1200 lbs)	1.10 x	=			
	Heifers (400 lbs to 800 lbs)	0.60 x	=	1.00 x		=
Beef	Steers or Cows (400 lbs to market)	1.00 x	484 = 484			
	Bulls (each)	1.40 x	=	1.00 x	484	= 484
Veal Calves		0.50 x	=	1.00 x		=
Swine	Pigs (up to 55 lbs)	0.10 x	=	0.10 x		=
	Pigs (55 lbs to market)	0.40 x	=			
	Sows (each)	0.40 x	=			
	Boars (each)	0.50 x	=	0.40 x		=
Chickens	Layers (each) -non-liquid manure system	0.01 x	=	0.0123 x		=
	Broilers/Pullets (each) -non-liquid manure system	0.005 x	=	0.008 x		=
	Per Bird -liquid manure system	0.033 x	=	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 x	=	0.2 x		=
	Ducks (each) -non-liquid manure system	0.01 x	=	0.0333 x		=
Turkeys (each)		0.018 x	=	0.018 x		=
Sheep (each)		0.1 x	=	0.1 x		=
Horses (each)		2 x	=	2 x		=
Total Animal Units:		Total Mixed Animal Units = 546.2 (add all rows above)			Total Non-Mixed Animal Units = 484 (Enter the single highest number from any row above; DO NOT add the totals)	

☒ Check here if there are no proposed increases in animal numbers at this site within the next five years.

The Projected Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

Projected Animal Unit Calculation Numbers

Name of Site **Ex. 6 Personal Privacy (PP) LLC - K Farm**

Animal Type		I. Mixed Animal Units			II. Non-mixed Animal Units		
		b. Equiv. factor	c. Projected Number	d. No. of AUs	e. Equiv. factor	f. Projected Number	g. No. of AUs
<i>Example - Broilers (non-liquid manure)</i>		<i>0.005 x</i>	<i>150,000</i>	<i>= 750</i>	<i>0.008 x</i>	<i>150,000</i>	<i>= 1200</i>
Dairy/Beef Calves (under 400 lbs)		0.20 x	700	= 140	<i>Fed numbers in this column comply with 40 CFR § 122.23</i>		
Dairy Cattle	Milking & Dry Cows	1.40 x		=	1.43 x		=
	Heifers (800 lbs to 1200 lbs)	1.10 x		=			
	Heifers (400 lbs to 800 lbs)	0.60 x		=	1.00 x		=
Beef	Steers or Cows (400 lbs to market)	1.00 x	1300	= 1300			
	Bulls (each)	1.40 x		=	1.00 x	1300	= 1300
Veal Calves		0.50 x		=	1.00 x		=
Swine	Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
	Pigs (55 lbs to market)	0.40 x		=			
	Sows (each)	0.40 x		=			
	Boars (each)	0.50 x		=	0.40 x		=
Chickens	Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
	Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
	Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)		0.018 x		=	0.018 x		=
Sheep (each)		0.1 x		=	0.1 x		=
Horses (each)		2 x		=	2 x		=
Total Animal Units:		Total Mixed Animal Units = 1440 (add all rows above)			Total Non-Mixed Animal Units = 1300 (Enter the single highest number from any row above; DO NOT add the totals)		

Date of Proposed Expansion (MM/YY): 08/2018

Appendix B.3

Ex. 6 Personal Privacy (PP) Farm

Animal Unit Calculation Worksheet
Form 3400-025A (R 3/2012)

The Current Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

Current Animal Unit Calculation Numbers							
Name of Site:		Ex. 6 Personal Privacy (PP) LC		Ex. 6 Personal Privacy (PP)		Farm	
Animal Type		I. Mixed Animal Units			II. Non-mixed Animal Units		
		b. Equiv. factor	c. Current Number	d. No. of AUs	e. Equiv. factor	f. Current Number	g. No. of AUs
Example - Broilers (non-liquid manure):		0.005 x	150,000	= 750	0.008 x	150,000	= 1200
Dairy/Beef Calves (under 400 lbs)		0.20 x	642	= 128.4	Fed numbers in this column comply with 40 CFR s. 122.23		
Dairy Cattle	Milking & Dry Cows	1.40 x	0	=	1.43 x	0	=
	Heifers (800 lbs to 1200 lbs)	1.10 x	1000	= 1100			
	Heifers (400 lbs to 800 lbs)	0.60 x	714	= 428.4	1.00 x	1714	= 1714
Beef	Steers or Cows (400 lbs to market)	1.00 x		=			
	Bulls (each)	1.40 x		=	1.00 x		=
Veal Calves		0.50 x		=	1.00 x		=
Swine	Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
	Pigs (55 lbs to market)	0.40 x		=			
	Sows (each)	0.40 x		=			
	Boars (each)	0.50 x		=	0.40 x		=
Chickens	Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
	Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
	Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)		0.018 x		=	0.018 x		=
Sheep (each)		0.1 x		=	0.1 x		=
Horses (each)		2 x		=	2 x		=
Total Animal Units:		Total Mixed Animal Units = 1656.8 (add all rows above)			Total Non-Mixed Animal Units = 1714 (Enter the single highest number from any row above; DO NOT add the totals)		

☐ Check here if there are no proposed increases in animal numbers at this site within the next five years.

Animal Unit Calculation Worksheet
Form 3400-025A (R 3/2012)

The Projected Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

Projected Animal Unit Calculation Numbers

Name of Site: **Ex. 6 Personal Privacy (PP)** **LLC -** **Ex. 6 Personal Privacy (PP)** **Farm**

Animal Type		I. Mixed Animal Units			II. Non-mixed Animal Units		
		b. equiv. factor	c. Projected Number	d. No. of AUs	e. Equiv. factor	f. Projected Number	g. No. of AUs
<i>Example - Broilers (non-liquid manure):</i>		<i>0.005 x</i>	<i>150,000</i>	<i>= 750</i>	<i>0.008 x</i>	<i>150,000</i>	<i>= 1200</i>
Dairy/Beef Calves (under 400 lbs)		0.20 x	300	= 60	<i>Fed numbers in this column comply with 40 CFR s. 122.23</i>		
Dairy Cattle	Milking & Dry Cows	1.40 x		=	1.43 x		=
	Heifers (800 lbs to 1200 lbs)	1.10 x	1000	= 1100			
	Heifers (400 lbs to 800 lbs)	0.60 x	1100	= 660	1.00 x	2100	= 2100
Beef	Steers or Cows (400 lbs to market)	1.00 x		=			
	Bulls (each)	1.40 x		=	1.00 x		=
Veal Calves		0.50 x		=	1.00 x		=
Swine	Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
	Pigs (55 lbs to market)	0.40 x		=			
	Sows (each)	0.40 x		=			
	Boars (each)	0.50 x		=	0.40 x		=
Chickens	Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
	Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
	Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)		0.018 x		=	0.018 x		=
Sheep (each)		0.1 x		=	0.1 x		=
Horses (each)		2 x		=	2 x		=
Total Animal Units:		Total Mixed Animal Units = 1820 (add all rows above)			Total Non-Mixed Animal Units = 2100 (Enter the single highest number from any row above; DO NOT add the totals)		

Date of Proposed Expansion (MM/YY): 08/2018

Appendix C

Waste Storage Sizing Calculations



WASTE STORAGE FACILITY SIZING

Project Name: (MAIN FACILITY)
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen

Date: June 19, 2018

Checked By: _____

WEATHER DATA

Site Location: Kewaunee County, WI

Weather Station Location: Kewaunee - KEWAUNEE WI4195

25 Year/ 24 Hour Storm: 4.3 inches

	Precipitation	Evaporation	Precip. - Evap.
	(in)	(in)	(in)
January	1.09	0.02	1.07
February	1.02	0.02	1.00
March	1.79	0.07	1.72
April	2.93	0.63	2.30
May	3.53	1.69	1.84
June	4.21	2.48	1.73
July	4.02	2.76	1.26
August	4.01	2.36	1.65
September	3.73	1.57	2.16
October	2.82	0.67	2.15
November	2.16	0.08	2.08
December	1.40	0.02	1.38
Total (in)	32.71	12.37	20.34



WASTE STORAGE FACILITY SIZING

Project Name: Ex. Personal Project (PP) (MAIN FACILITY)
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen

Date: June 25, 2018

Checked By: _____

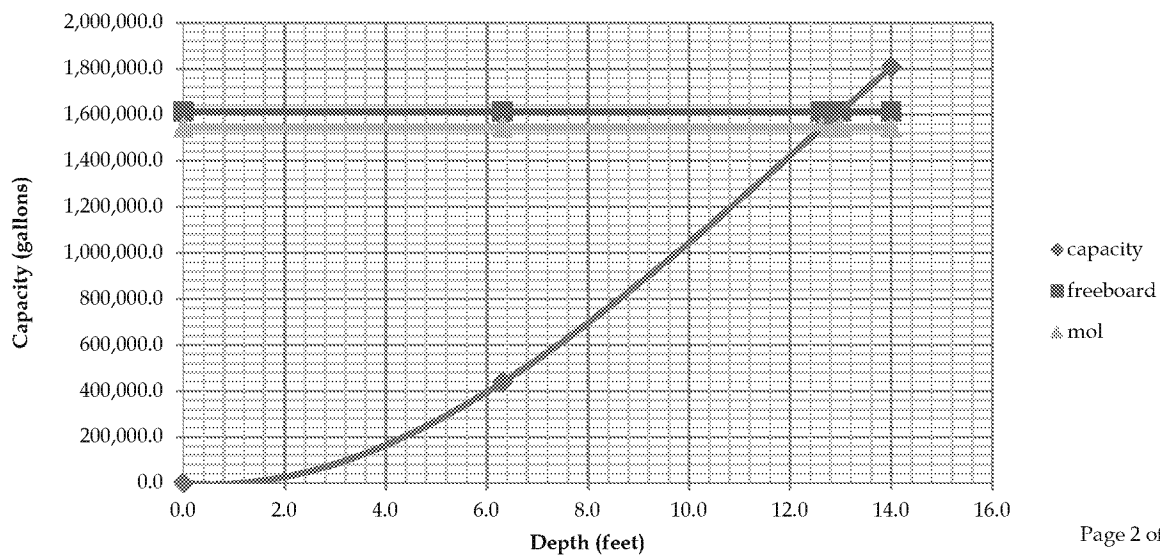
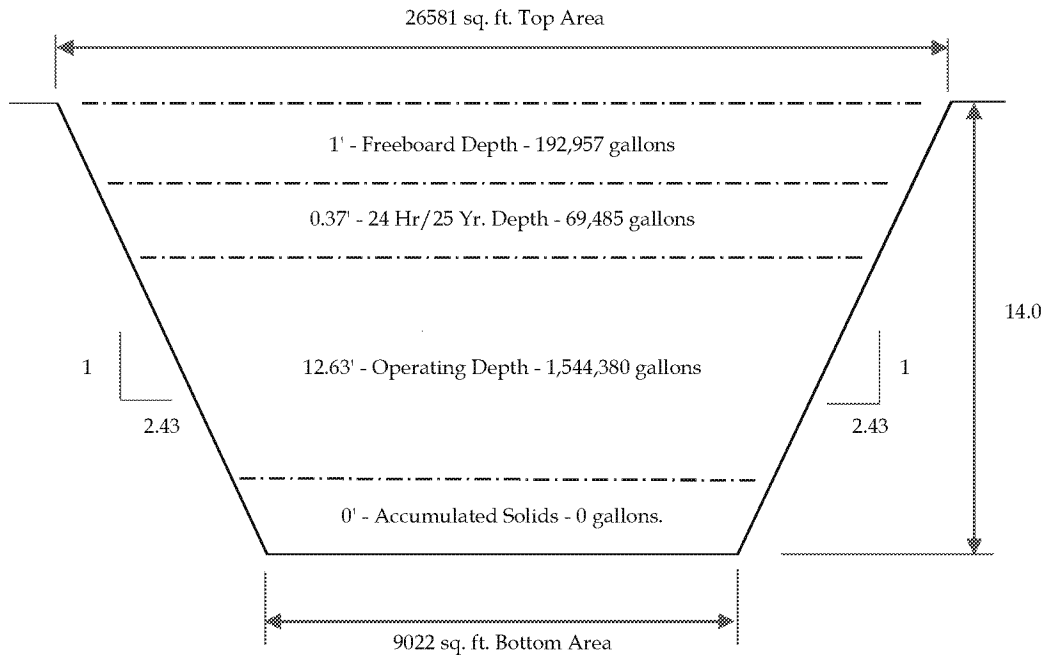
EXISTING STORAGE: WSP #1

STORAGE TYPE: Irregular Shaped Pond

TOTAL CAPACITY: 1,806,821 gallons

DESIGN STORAGE VOLUME: 1,613,865 gallons

COVERED: No





WASTE STORAGE FACILITY SIZING

Project Name: Ex. 5 Personal Primary (PP) (MAIN FACILITY)
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen
Date: June 25, 2018
Checked By: _____

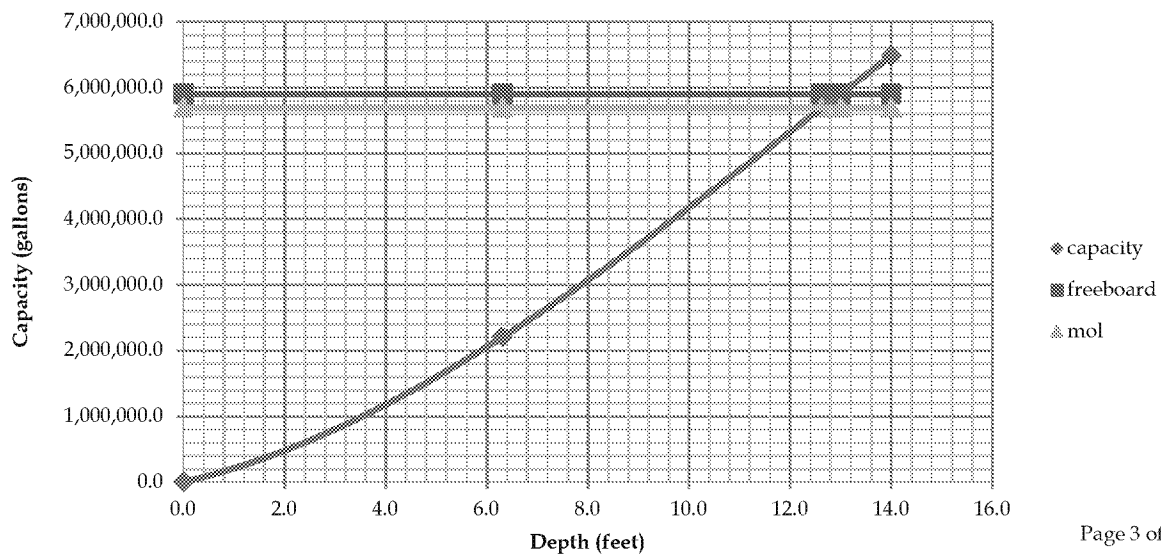
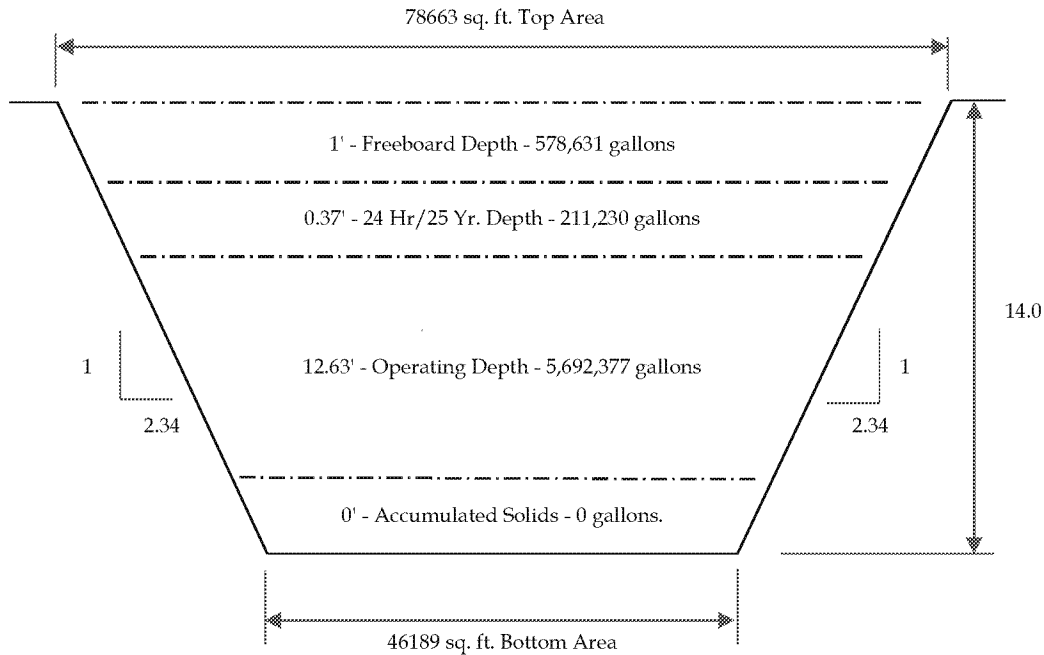
EXISTING STORAGE: WSP #2

STORAGE TYPE: Irregular Shaped Pond

TOTAL CAPACITY: 6,482,238 gallons

DESIGN STORAGE VOLUME: 5,903,607 gallons

COVERED: No





WASTE STORAGE FACILITY SIZING

Project Name:
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen
Date: June 25, 2018
Checked By: _____

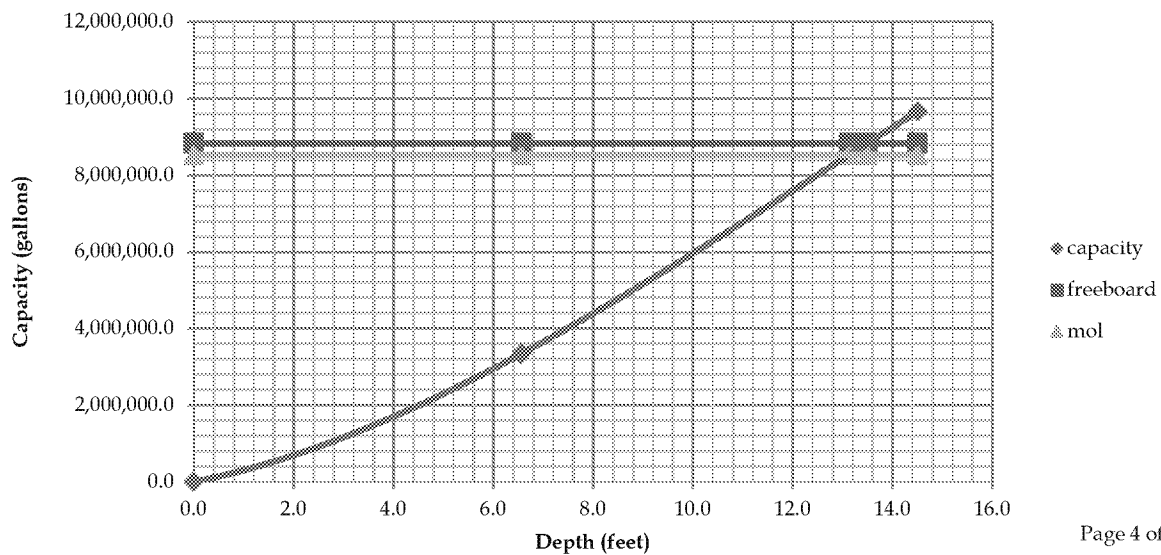
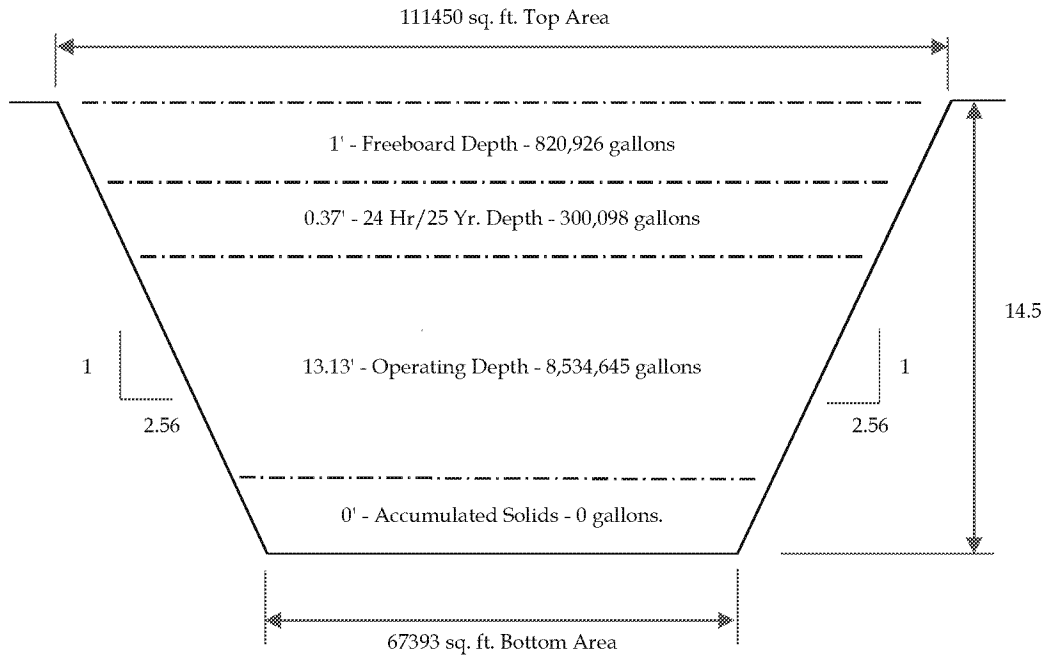
EXISTING STORAGE: WSP #3

STORAGE TYPE: Irregular Shaped Pond

TOTAL CAPACITY: 9,655,670 gallons

DESIGN STORAGE VOLUME: 8,834,743 gallons

COVERED: No





WASTE STORAGE FACILITY SIZING

Project Name: Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen
Date: June 25, 2018
Checked By: _____

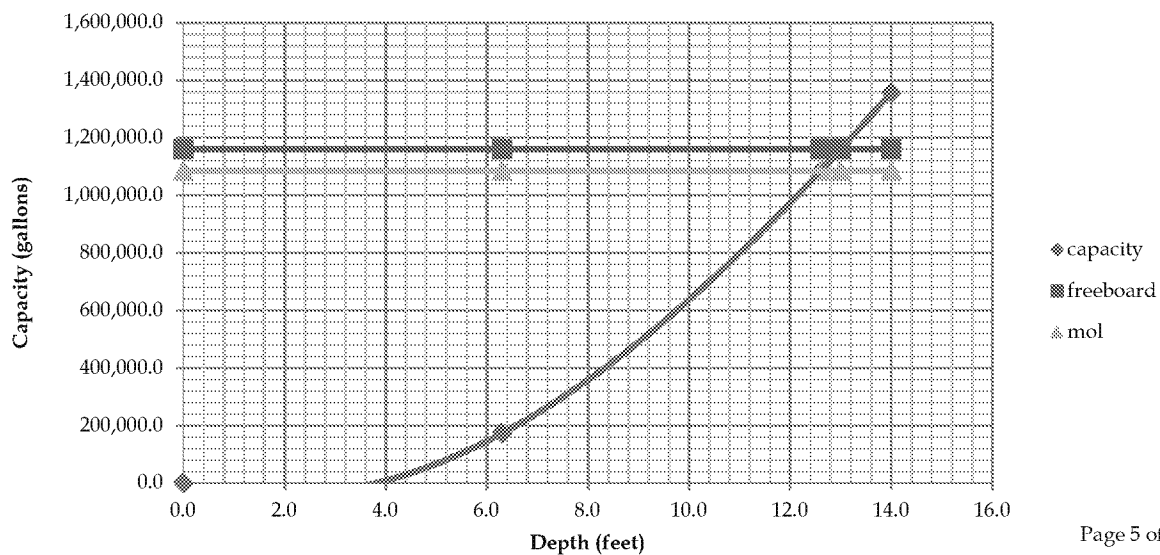
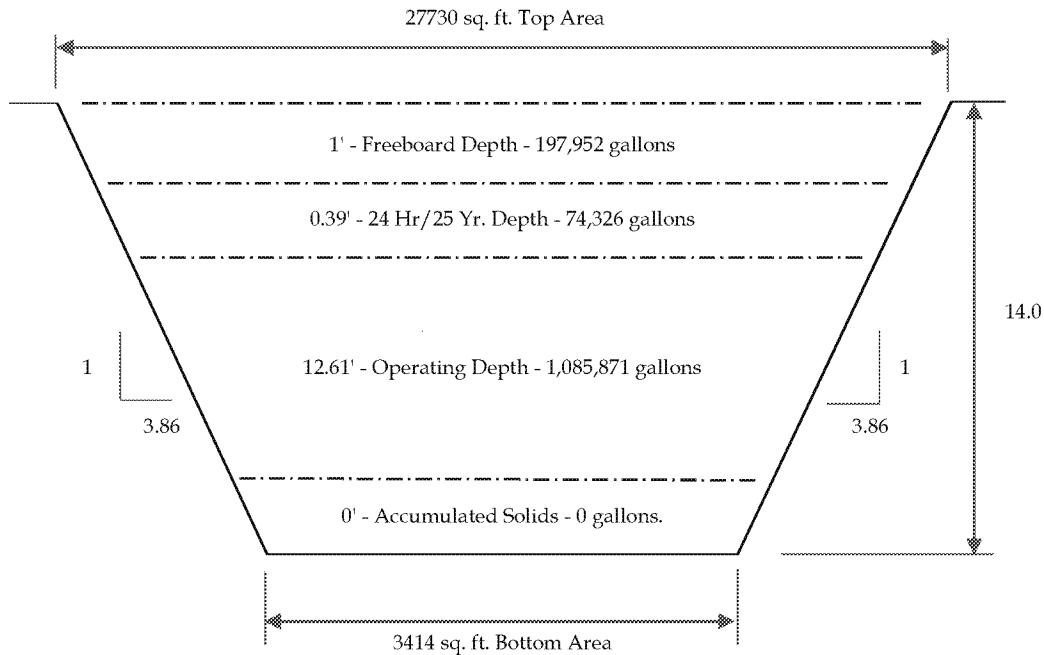
EXISTING STORAGE: Runoff Pond

STORAGE TYPE: Irregular Shaped Pond

TOTAL CAPACITY: 1,358,149 gallons

DESIGN STORAGE VOLUME: 1,160,197 gallons

COVERED: No





WASTE STORAGE FACILITY SIZING

Project Name: **Ex. 6 Personal Privacy (PP)**
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen

Date: June 25, 2018

Checked By: _____

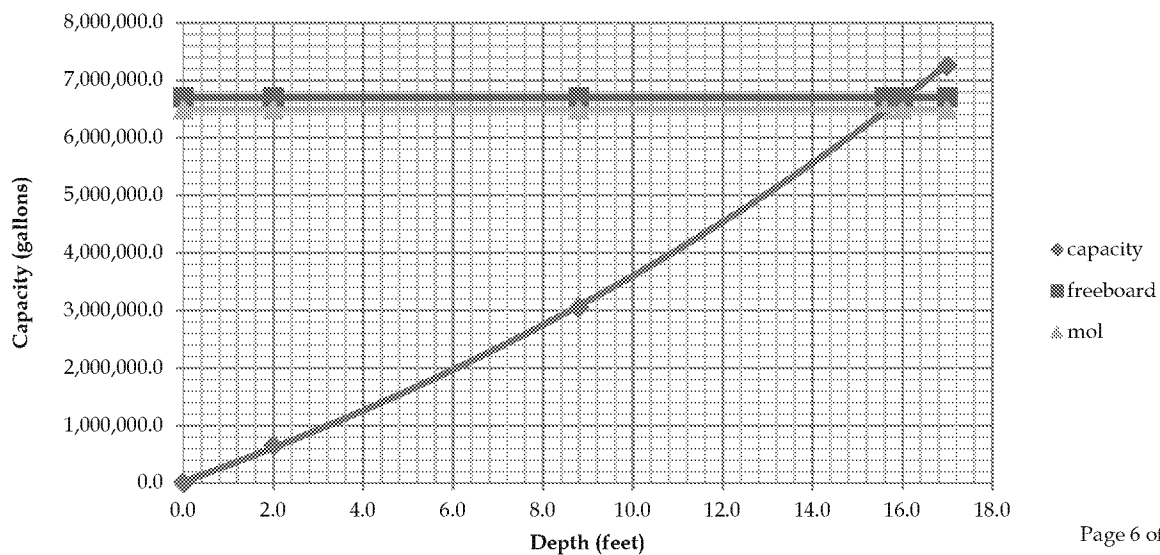
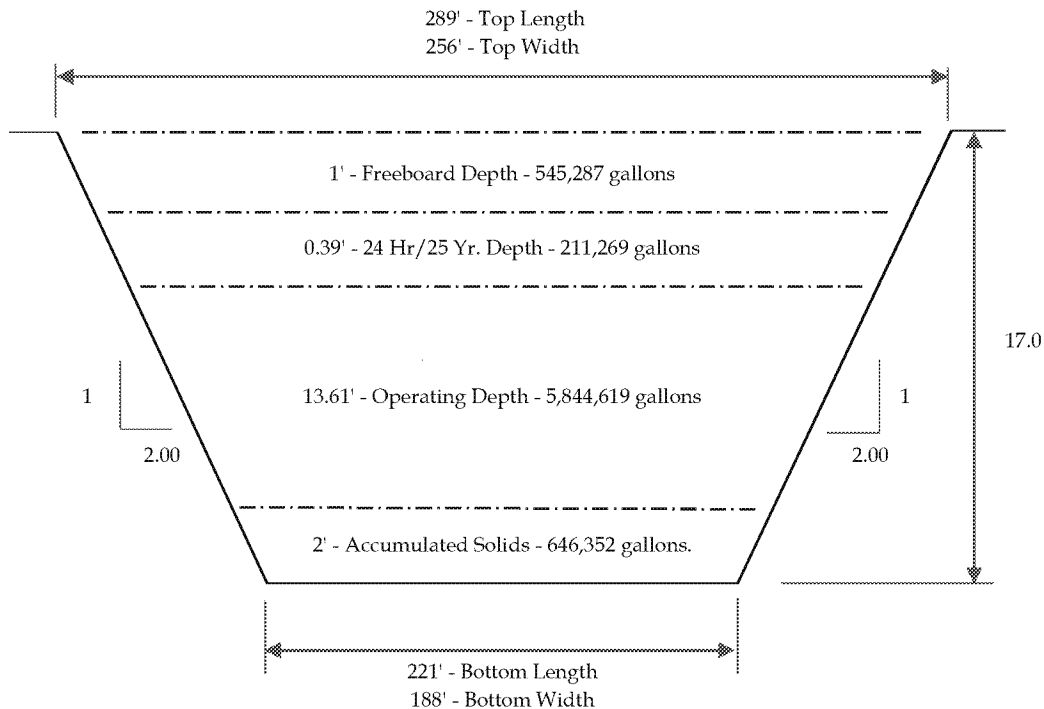
EXISTING STORAGE: WSP #1

STORAGE TYPE: Rectangular Pond

TOTAL CAPACITY: 7,247,527 gallons

DESIGN STORAGE VOLUME: 6,055,888 gallons

COVERED: No





WASTE STORAGE FACILITY SIZING

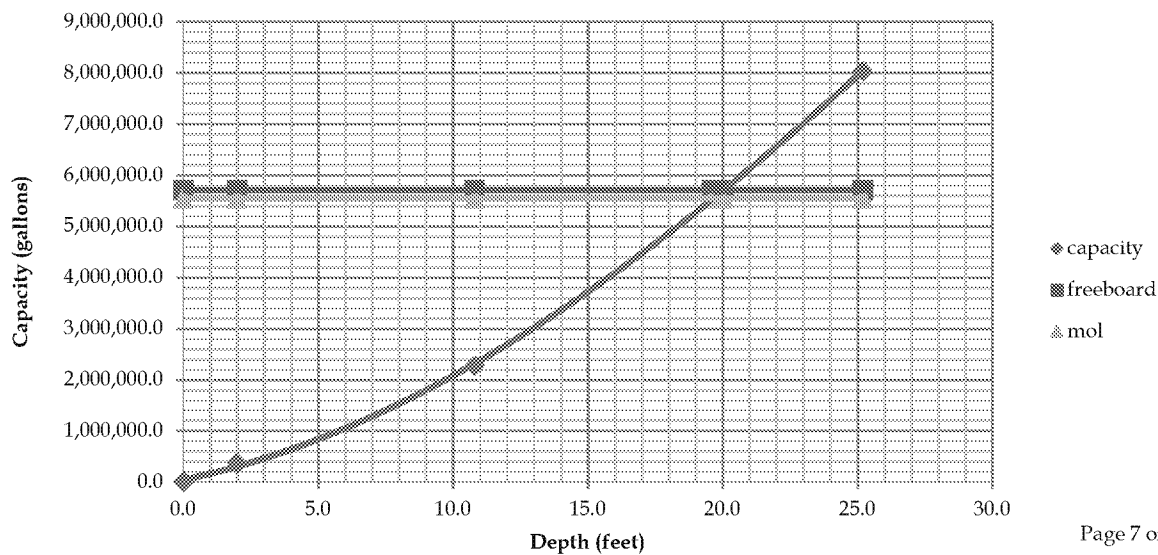
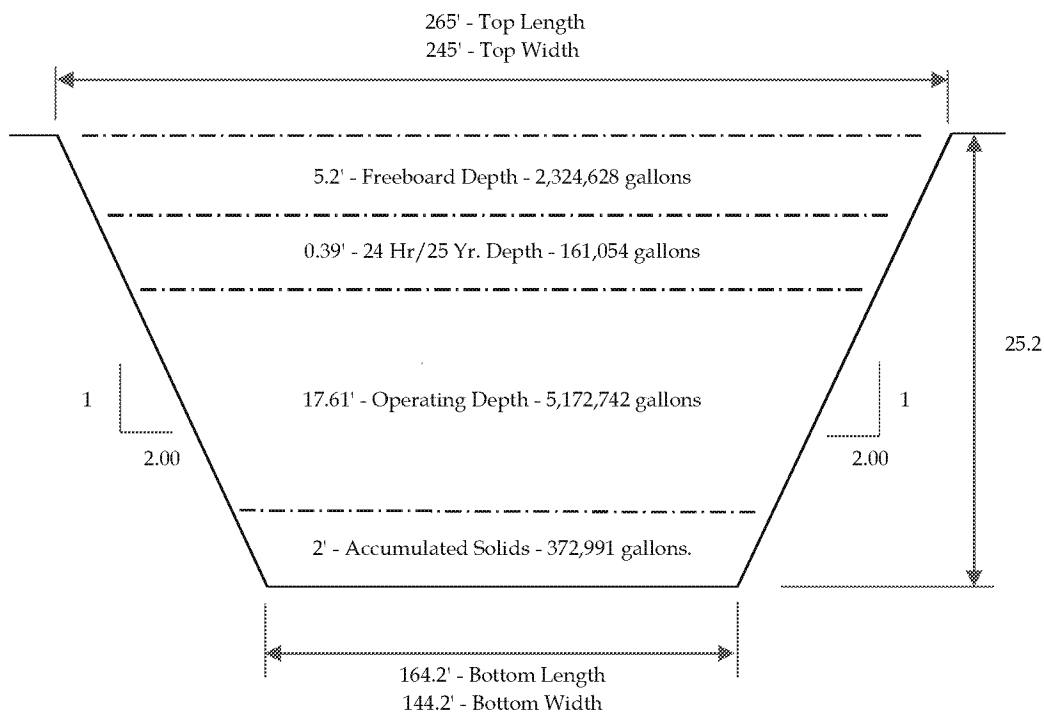
Project Name: **Ex. 6 Personal Privacy (PP)**
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen
Date: June 25, 2018
Checked By: _____

EXISTING STORAGE: WSP #2

STORAGE TYPE: Rectangular Pond

TOTAL CAPACITY: 8,031,415 gallons
DESIGN STORAGE VOLUME: 5,333,796 gallons
COVERED: No





WASTE STORAGE FACILITY SIZING

Project Name: **Ex. 6 Personal Privacy (PP)**
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen
Date: June 25, 2018
Checked By: _____

EXISTING STORAGE: Leachate Basin

STORAGE TYPE: Rectangular Pond

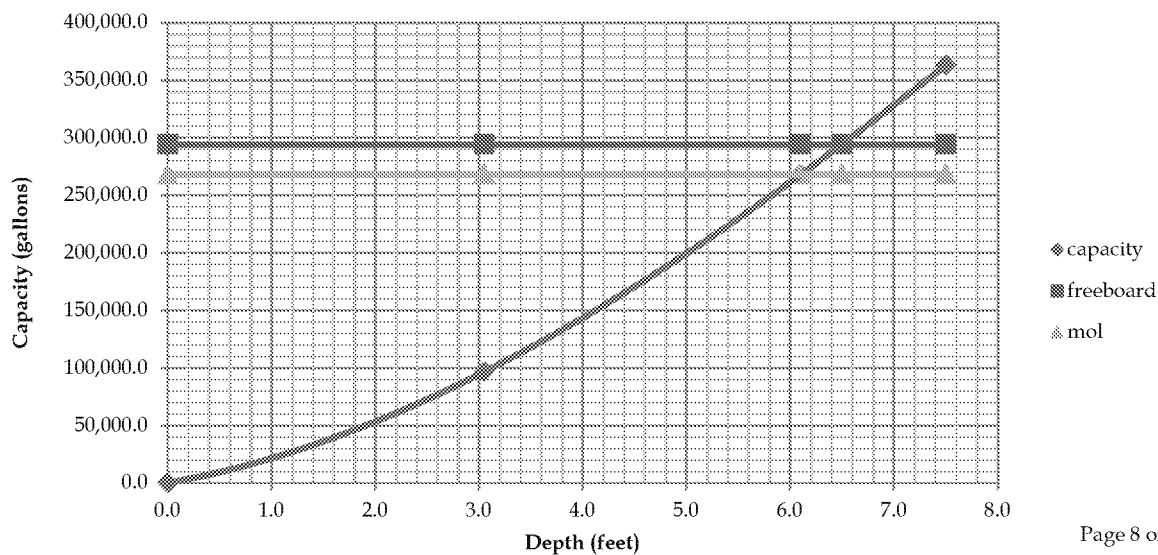
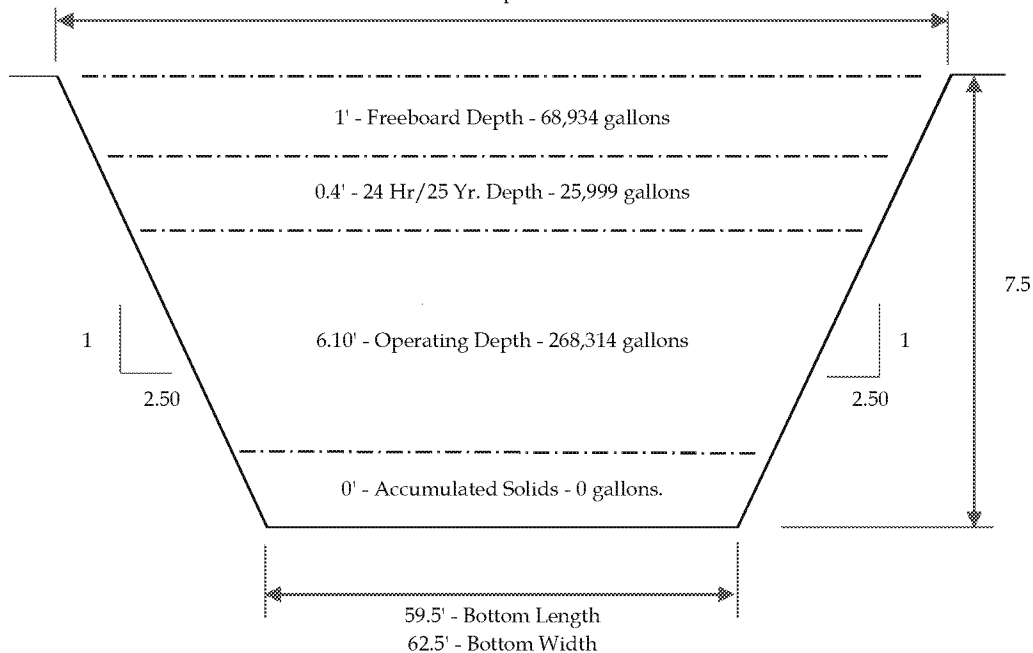
TOTAL CAPACITY: 363,248 gallons

DESIGN STORAGE VOLUME: 294,313 gallons

COVERED: No

97' - Top Length

100' - Top Width





WASTE STORAGE FACILITY SIZING

Project Name: (S FARM)
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen
Date: June 25, 2018
Checked By: _____

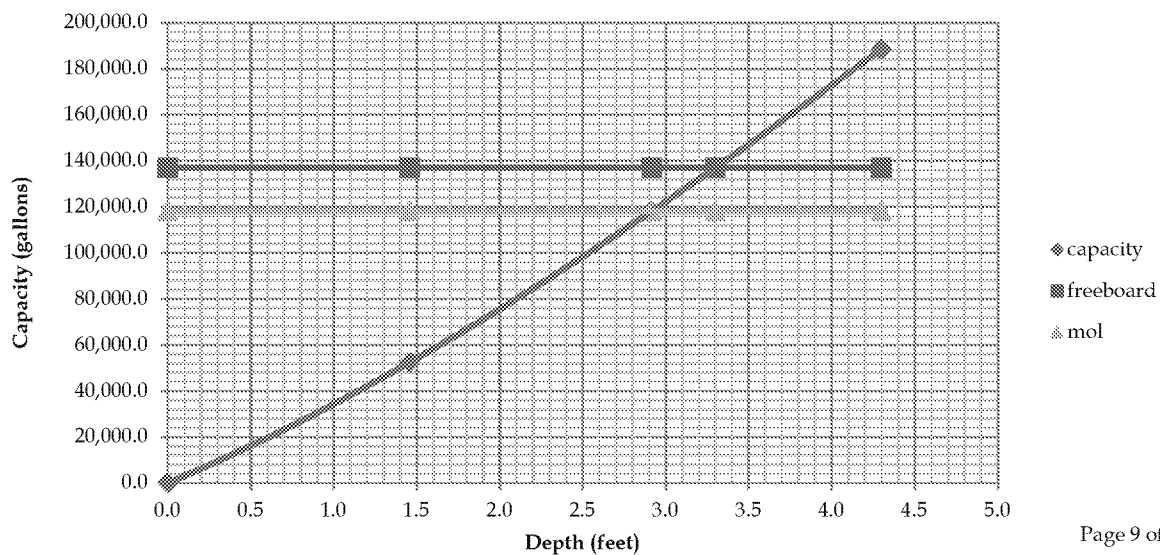
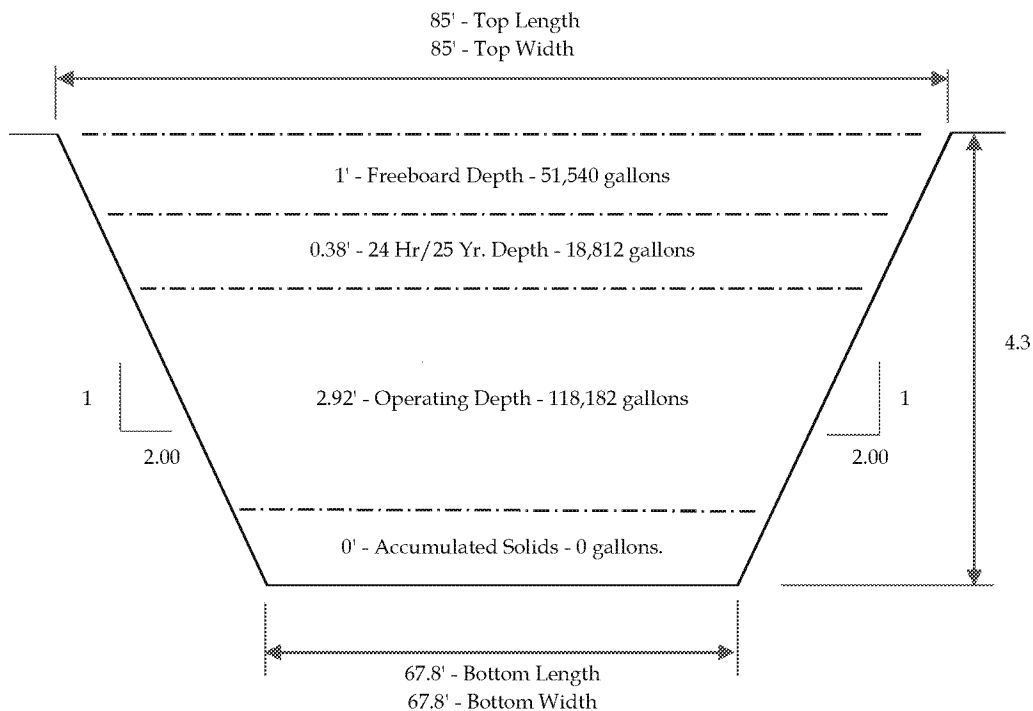
EXISTING STORAGE: WSP #1

STORAGE TYPE: Rectangular Pond

TOTAL CAPACITY: 188,533 gallons

DESIGN STORAGE VOLUME: 136,993 gallons

COVERED: No





WASTE STORAGE FACILITY SIZING

Project Name: Ex. 6 Personal Privacy (PP) (S FARM)
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen
Date: June 25, 2018
Checked By: _____

EXISTING STORAGE: WSP #2

STORAGE TYPE: Rectangular Pond

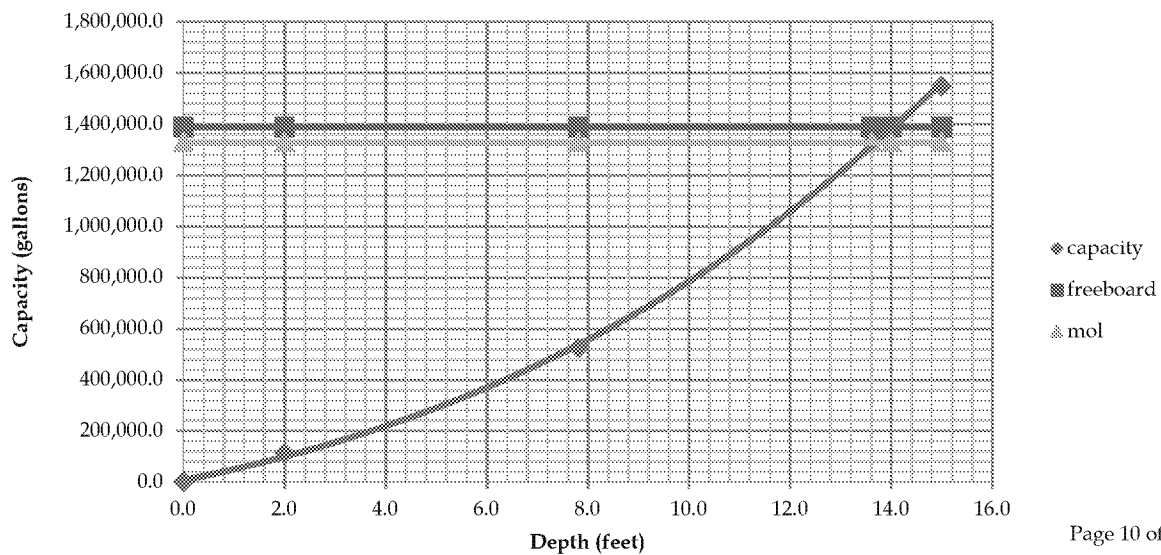
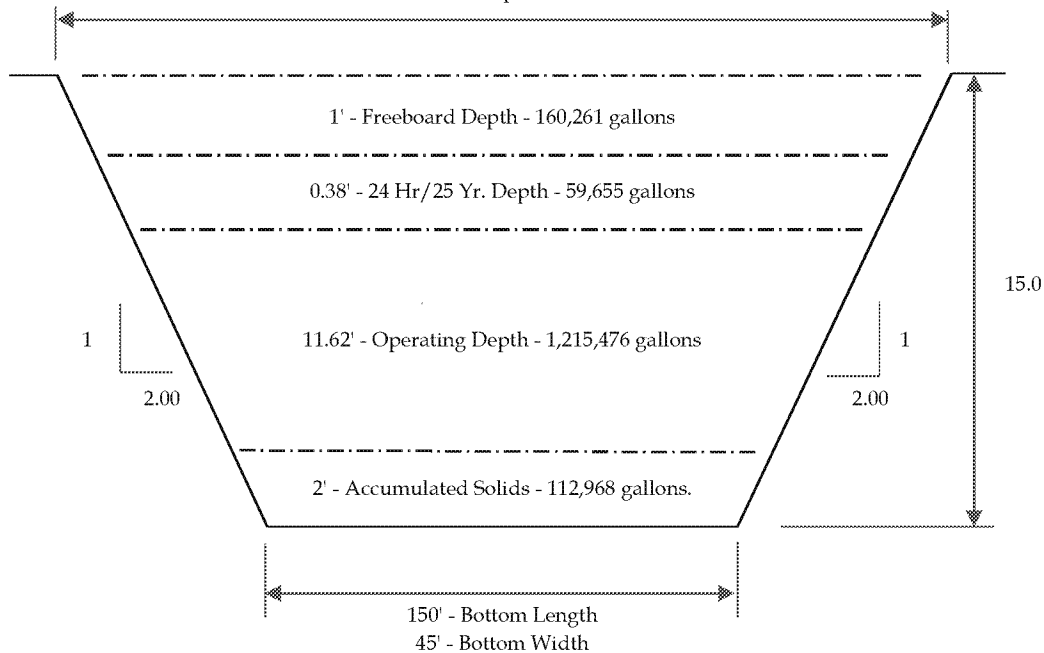
TOTAL CAPACITY: 1,548,360 gallons

DESIGN STORAGE VOLUME: 1,275,131 gallons

COVERED: No

210' - Top Length

105' - Top Width





WASTE STORAGE FACILITY SIZING

Project Name: See Personal Privacy Policy (54 FARM)
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen
Date: June 25, 2018
Checked By: _____

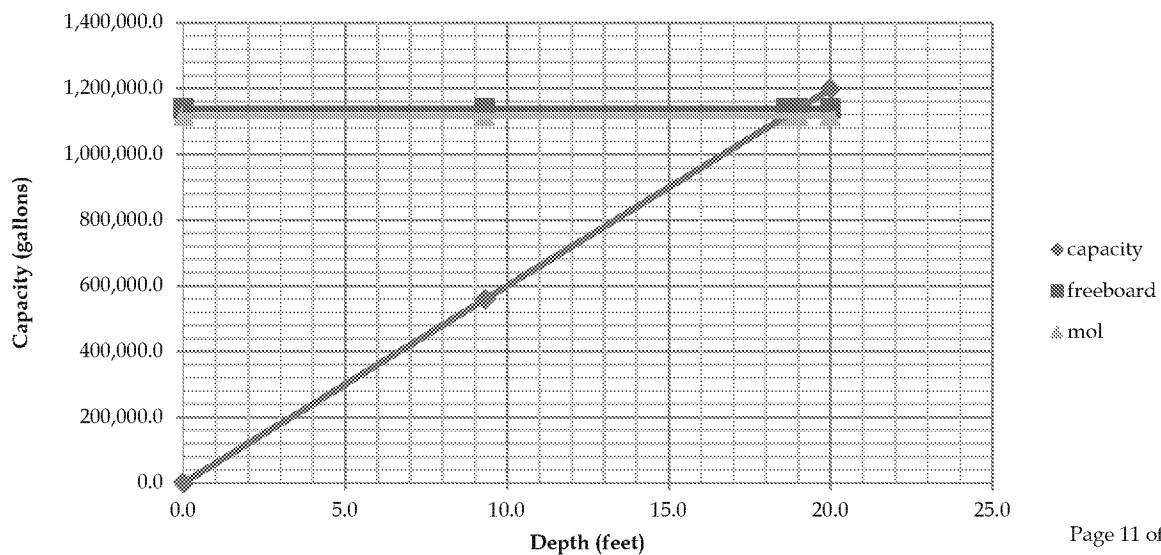
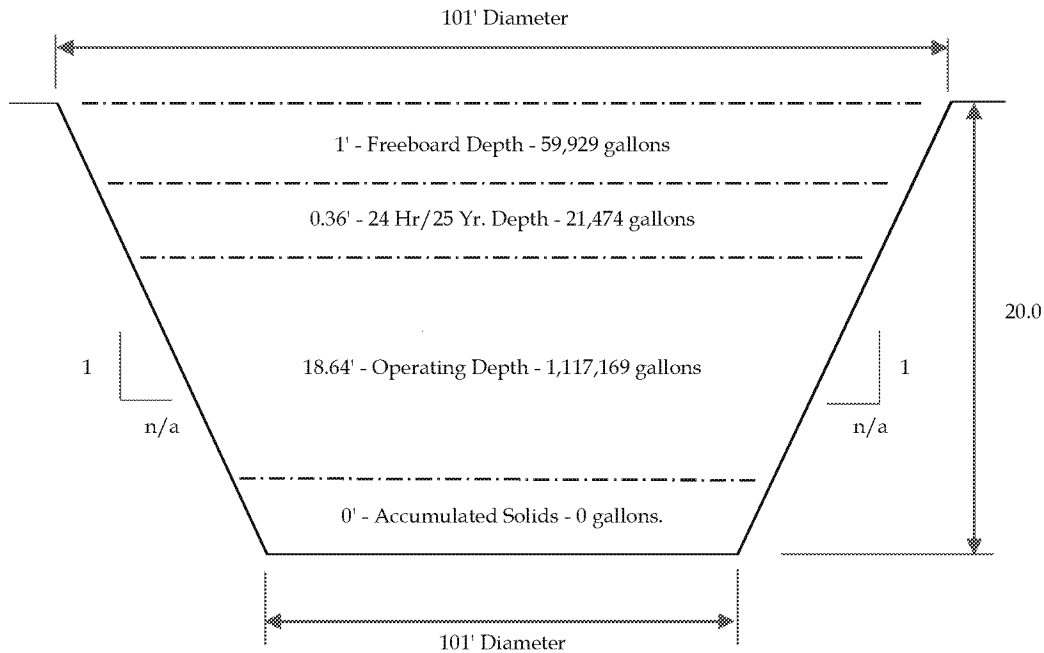
EXISTING STORAGE: Slurrystore

STORAGE TYPE: Circular Tank

TOTAL CAPACITY: 1,198,572 gallons

DESIGN STORAGE VOLUME: 1,138,644 gallons

COVERED: No





WASTE STORAGE FACILITY SIZING

Project Name: Is it Personal/Private/PP? (MAIN FACILITY)
Project Number: 53142(37)
County/State: Kewaunee, WI

Designed By: M. Seppanen

Date: June 19, 2018

Checked By: _____

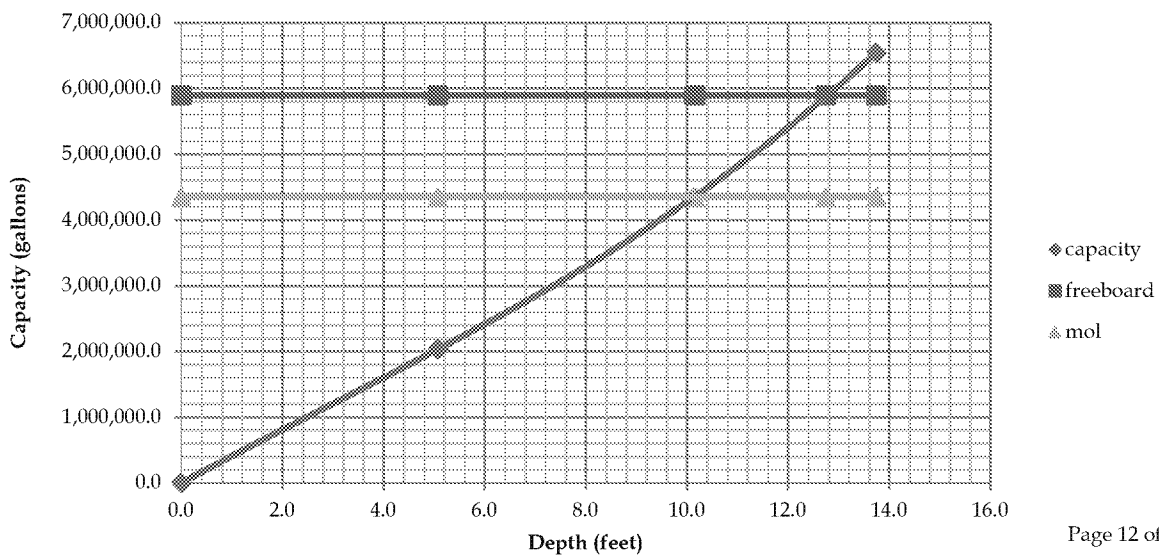
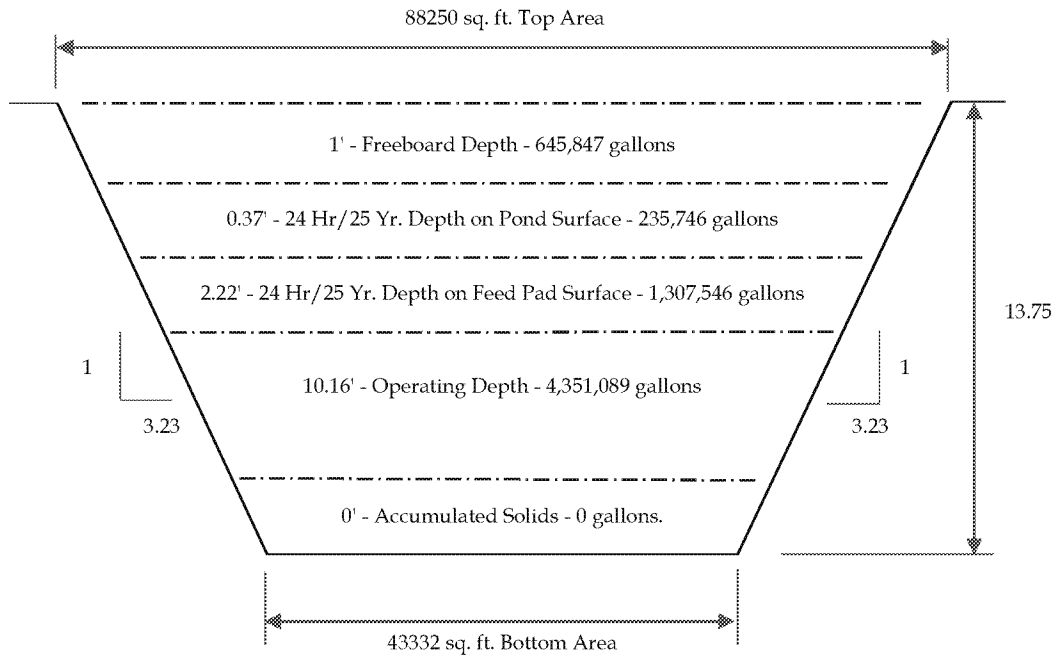
PROPOSED STORAGE: Proposed Leachate Pond

STORAGE TYPE: Irregular Shaped Pond

TOTAL CAPACITY: 6,541,089 gallons

DESIGN STORAGE VOLUME: 5,895,242 gallons

COVERED: No





about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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